

TUSCALOOSA CITY SCHOOLS

HIGH SCHOOL COURSE CATALOG

2012 -2013

*The mission of the Tuscaloosa City
Board of Education is to create
and support a culture of high
expectations for all students
to achieve personal and
academic excellence.*

Tuscaloosa City Board of Education
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www.tuscaloosacityschools.com

Course Catalog 2012-2013
Tuscaloosa City School System

Central Administration Directory

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Assistant Superintendent for General Administration	Dr. Mike Daria
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Board Meetings: The Tuscaloosa City Board of Education meets regularly on the fourth Tuesday of each month at 6:00 p.m. at the Central Office located at 1210 21st Avenue, Tuscaloosa, Alabama 35401.

Website: Visit the Tuscaloosa City Schools at www.tusc.k12.al.us or www.tuscaloosacityschools.com for current information of interest.

Equal Education and Employment Opportunity Statement: It is the policy of the Tuscaloosa City Board of Education that no person in the school system shall, on the basis of race, color, creed, religion, sex, age, national origin, or disability be denied employment, be excluded from participation in, be denied the benefits of, or be subjected to discrimination in any program or activity as identified and defined by Section 504 of *The Rehabilitation Act of 1973* (P.L. 93-112) and *The Americans with Disabilities Act of 1990*. For more information, contact:

Mrs. Vickie Brown, 504 Coordinator.....	(205) 759-3523
Dr. Mike Daria, Sexual Harassment Officer.....	(205) 759-3523
Ms. Billie Kay Wingfield, Title IX Coordinator, Gender Equity.....	(205) 759-3677

Questions from parents and students are always welcome. Contact your school principal for answers to questions regarding concerns at the local school level.

Tuscaloosa City Schools Course Catalog for 2012-2013

Grades 9-12

Information for Students and Parents

It is the belief of the Tuscaloosa City School System that all students desire and deserve to become productive, successful participants in the world of the 21st century. Because each student is valuable and important to our future, the educational success of each student is the focus of every effort of the Tuscaloosa City School System.

Curriculum offerings in the Tuscaloosa City School System are designed to meet standards and guidelines established by the Alabama State Department of Education. Curriculum planning and student placement decisions reflect policies adopted by the Tuscaloosa City Board of Education. Parents are encouraged to consult the current **Student/Parent Information Guide**, school counselors, administrators, and teachers for additional information.

The courses offered by the Tuscaloosa City Schools are aligned with and based upon the Alabama State Courses of Study. Course offerings are designed to allow each student the opportunity to achieve his or her individual academic and career/technical goals. The availability of courses will depend on a sufficient number of students enrolling in accordance with state guidelines. The course catalog is designed to comply fully with the requirements of Title IX of the Educational Amendments of 1972 and local board of education policy. Local board policy states, in part, that "It is the policy of the Tuscaloosa City Board of Education that no student shall be excluded from participation in, be denied the benefits of, or subjected to discrimination in any program or activity, on the basis of sex, race, age, religion, belief, national origin, disability, or ethnic group."

If complaints and charges of discrimination cannot be resolved through the normal channels of the student grievance procedure, one may file such complaints, in writing, with the Coordinator of Title IX, Title VI, or Section 504 activities at the Central Office of the Tuscaloosa City Schools, P.O. Box 038991, Tuscaloosa, Alabama 35403 (phone 759-3700). A copy of

the grievance procedure is available at the Central Office.

General Information

High school class schedules are based on a seven-period day with an additional 36-minute period for enrichment or intervention opportunities. Incoming ninth and tenth are required to take one of each four academic core courses (English, math, science, and social studies) each year. For eleventh and twelfth graders, counselors will provide guidance for course selections based on the number of required core credits that have already been obtained to fulfill graduation requirements. All students will work with counselors or other local school personnel to select courses to earn the required number of Carnegie units (credits) for the chosen diploma and/or endorsement.

Student Placement

Teacher recommendations and student performance standards determine student placement in the core content areas and electives as indicated in the course catalog. Parents or students having questions about the placement process or placement recommendations are encouraged to contact the building principal or counselor for clarification.

Promotion/Grade Classification

To be promoted in middle school grades (6-8) students must pass all four academic core courses (English, mathematics, science, and social studies) and must meet satisfactory performance standards in elective courses. To be a tenth grade student (sophomore), one must have earned 5 credits. To be an eleventh (junior) grade student, one must have earned 12 credits. To be a twelfth (senior) grade student, one must have earned 20 credits. Reclassification of high school students is adjusted at midyear according to current Alabama State Department of Education guidelines to provide the maximum number of allowable opportunities for each student to participate in the Alabama High School Graduation Examination (AHSGE).

Course Selection Forms

Counselors and teachers meet with students to advise students about course offerings, prerequisites, and placement. School personnel complete forms for students who fail to return course selection forms or whose forms are incomplete or incorrect.

Course Schedules

Each high school student selects seven (7) courses and alternate choices for the upcoming academic year. During course selection, each middle school student selects six (6) courses: four academic, physical education, and one elective. Student schedules for specific courses, teachers, and semesters are assigned by computer. Some high school courses may be offered only during a specific semester– fall or spring. Schools attempt to balance academic units and elective units each semester.

Every effort is made to schedule each student into courses that reflect his/her first choice. Course availability is affected by many factors: student demand, school enrollment, personnel availability, and funding constraints.

Dates for early schedule pick-up will be announced in the local media. To obtain an early schedule, the student must pay all fees required for courses selected.

Schedule Changes

Schedule changes are not encouraged after the fifth class day of a semester.

Graduation Ceremony

Diplomas will be awarded to students who earn the required units (credits) for graduation and pass all sections of the Alabama High School Graduation Exam as required by the diploma option chosen. All requirements must be met for participation in the graduation ceremony. Requirements are specified in this document and the Tuscaloosa City School System **Student/Parent Information Guide**.

Fees

No fees shall be charged for courses required for graduation. In courses not required for graduation, reasonable fees will be set for courses requiring laboratory and shop materials and equipment, provided, however, that such **fees shall be waived for students who cannot afford to pay the fee.** (Code of Alabama § 16-13-13)

Fees for courses not required for graduation must be paid at the time of schedule pick-up. Schools may allow pre-payment or payment of a deposit on fees when schedule forms are returned during registration or before the end of

school for the current year. **Please contact the school principal about fee waivers.**

Participation in Extracurricular Activities (“Academics First”)

The Tuscaloosa City Board of Education recognizes the value of athletics and other extracurricular activities as they relate to the total education of students. The Tuscaloosa City Board of Education also recognizes and supports high academic standards and the necessity of developing a framework to annually assess each athletic and extracurricular student's progress toward graduating from high school on schedule with his/her class.

For purposes of definition, athletic events are defined as those recognized and sanctioned by the Alabama High School Athletic Association. Extracurricular activities are defined as those in which a student represents his/her school.

The Tuscaloosa City Board of Education prescribes the following regulations for eligibility by students in this school system to participate in athletics and/or extracurricular activities:

1. Each student entering grades 10-12 must, for the immediate preceding school year, have a total numerical average of 70, (including any four (4) core courses) and earn the appropriate number of credits in each of six (6) subjects that total six (6) Carnegie units of credit.
2. Physical education may count as only one (1) unit per year.
3. Eligibility shall be determined on the first day of the school year and shall remain in effect for one (1) complete school year. Students deemed ineligible at the beginning of the school year by virtue of having failed to meet the requirements outlined in parts 1-2 above, may regain their eligibility at the end of the first semester by meeting the requirements for eligibility in the two most recently completed semester, including summer school. Eligibility restoration must be determined no later than five (5) school days after the beginning of the succeeding semester. An ineligible student may not become eligible after

the fifth school day of each semester. Bona fide transfers will comply according to rules of the Alabama High School Athletic Association for sports and policies developed by this Board of Education as it pertains to extracurricular activities.

4. Each eligible student must meet the definition of a regular student as defined by the Alabama High School Athletic Association.
5. All students entering grades 8 and 9 must pass five (5) subjects with a total composite numerical average of 70 for those five (5) subjects during their preceding two terms of attendance. (Core courses are not required.)

Glossary of Terms

Dual Enrollment/Dual Credit:

In accordance to the Alabama Administrative Code for Dual Enrollment, eligible students may enroll in postsecondary institutions in order to dually earn credits for a high school diploma and/or a postsecondary degree. High school guidance counselors have dual enrollment application forms. Students must apply **six weeks prior** to the start of the class. A course passed as dual enrollment/dual credit counts as college credit and high school credit. Six college credit hours equal one credit at the high school level in the same or a related subject. Weighted credit is not awarded for dual enrollment courses. Partial credit may not be earned through dual enrollment.

Online Experience

Beginning with the ninth grade class of 2009-2010, the Alabama State Board of Education has mandated implementation of an “online experience,” as a requirement for the high school diploma. The online experience is defined as “a structured-learning environment that utilizes technology—consistently and regularly—with Intranet/Internet-based tools and resources as the delivery method for instruction, research, assessment, and communication.” The student may obtain online credit by:

1. Taking an online course,
2. Participating in a teacher-led online learning experience led/managed through a virtual environment or through blended instruction which balances

traditional teacher instruction and appropriately designed online experiences as outlined in the “High School Distance Learning: Online/Technology Enhanced Course or Experience Guidance,” or

3. Participating in online experiences incorporated into required courses for the Alabama High School Diploma.

District Distance Education Courses

The Tuscaloosa City Schools offers distance learning courses to all qualifying students in grades 9-12. Courses under this program along with the state’s Alabama Connecting Classrooms, Educators and Students Statewide (ACCESS Distance Learning) provide the opportunity for students with difficult schedules to take courses that would otherwise be unavailable. All courses currently approved for the Secondary Course Catalog may be optionally offered to qualifying students pending the availability of trained online facilitators and the appropriate distance education equipment. **Class size regulations are the same as for courses not taught through distance learning.**

Concurrent Enrollment: Eligible students may enroll in post-secondary institutions while enrolled in high school. Courses passed while concurrently enrolled earn college credit but are not awarded high school credit. Students may take coursework in areas for which they have adequate preparation and approval of the principal and/or counselor.

Early College Admission: Opportunities exist for students who may benefit from enrollment in higher education institutions prior to graduation from high school. High school guidance counselors and/or school administrators have early admission application forms. Courses taken during early admission to college count toward college credit and are not awarded high school credit.

Prerequisites: Prerequisites are listed as indicators of the recommended foundation of learning, grade level, and/or achievement standard needed to be successful in a particular course. Prerequisites provide guidance for teachers, parents, counselors, and students. They provide additional information to help plan students’ successful progress through the

variety of middle and high school programs offered by the Tuscaloosa City Schools.

Correspondence/Online/Independent Study:

Students in grades 9-12 may be approved to take correspondence or independent study and/or online courses for credit(s) offered through institutions recognized by the State Department of Education or from institutions accredited by a national accrediting agency recognized by the U.S. Office of Education. The school principal must grant prior written approval for each correspondence/independent/online study course. No more than one-fourth of the total units required for graduation may be taken by correspondence/online/independent study.

Credit Recovery:

Students who have been unsuccessful in mastering content or skills required to receive course credit or earn promotion may apply for Credit Recovery. Credit Recovery study is based on deficiencies rather than a repeat of the entire course. Students who have not achieved a baseline score of 40 or above (on a 100-point scale) must repeat the entire course.

Valedictorian and Salutatorian:

The revised procedures for valedictorian and salutatorian will be explained in the 2012-2013 Code of Conduct/Parent Resource Guide, which will be board approved and distributed in the summer 2012.

Advanced Placement:

The Advanced Placement Program (AP) is a collaborative effort among motivated students, dedicated teachers, and committed high schools, colleges, and universities. The AP Program is designed to enable students to take college-level courses and exams, and to earn college credit or placement, while still in high school. Most colleges and universities in the United States, as well as colleges and universities in more than 40 countries, have an AP policy granting incoming students credit, placement, or both on the basis of their AP Exam grades. Many of these institutions grant up to a full year of college credit (sophomore standing) to students who earn a sufficient number of qualifying AP grades. The AP Program supports the principle that each individual school develops its own curriculum for courses labeled "AP." The AP Course Audit instead provides AP teachers with a set of expectations that college and secondary faculty nationwide have established for college-

level courses. More information about the AP Program is available at AP Central, the College Board's online home for AP professionals www.apcentral.collegeboard.com/apstudents.

Students will receive a 1.0 extra grade point for successful completion of the course and the completion of the AP examination.

International Baccalaureate Programme (IB):

The IB Programme supports the development of effective and rewarding learning communities through service and professional networks focused on best practices in education. The objectives of the IB programme are to provide pupils with a balanced education, to facilitate geographic and cultural mobility, and to promote international understanding through a shared academic experience. Students who participate in the full diploma program pursue a specific, intensive, balanced liberal arts course of study which includes a critical thinking class, a minimum of 150 hours of participation in extracurricular activities and community services and a research paper. Students also must pass rigorous examinations in seven curricula areas.

Although students may be admitted to the IB Programme at the beginning of the eleventh 11th grade, the sequence of foreign language courses needed to earn the IB diploma requires participation in foreign language courses in grades 9 and 10.



Graduation Requirements

Colleges, universities, and post-secondary training schools have varying entrance requirements. Students are encouraged to consult school administrators, guidance counselors, teachers, and post-secondary institutions to determine best selections. **Credits to fulfill graduation requirements must be earned in grades 9-12 (with the current exception of Algebra I, Computer Applications, and Foreign Language (Level I) in eighth grade).**

Course requirements are listed on the following pages for the Class of 2016. Differences in specific course names or other requirements for

students graduating in **prior years** are noted as applicable. Logical and sequential progression through courses is recommended to provide students with the best opportunities for academic success. Students are encouraged to enroll in courses that will challenge them at the highest level.

The Alabama Occupational Diploma

The Alabama Occupational Diploma (AOD) is achieved through the standard curriculum or an alternative that is aligned with the Alabama courses of study. Students with special needs whose individualized education plan (IEPs) identify the AOD diploma as the appropriate exit document may receive this diploma. Those who receive the AOD must take the AHSGE but are not required to pass in order to receive the Alabama Occupational Diploma.

ALABAMA'S FIRST CHOICE

Alabama High School Graduation Requirements

Beginning with the 9th grade class of the 2009-2010 school year, **ALL** students will have as their default diploma option the **Advanced Academic Endorsement** to the Alabama High School Diploma.

The Alabama High School Diploma

The Alabama High School Diploma requires the passing of 24 credits of coursework—mathematics (4), science (4), social studies (4), English (4), Computer Applications (1/2), Physical Education (1), Health Education (1/2), Arts Education (1/2), and Electives (5 ½). It also requires the passing of all 5 sections of the AHSGE.

ENDORSEMENT REQUIREMENTS

Advanced Academic Endorsement: Requires passing all standard coursework including Algebra II with Trigonometry, two credits of the same foreign language, and an online learning experience and passing all 5 sections of the AHSGE.

Advanced Career and Technical Endorsement:

Requires passing the same coursework as the Advanced Academic Endorsement with the exception of foreign language and passing three career and technical courses (or two career and technical courses and another course related to

the student's career choice). In addition, all 5 sections of the AHSGE must be passed.

Career and Technical Endorsement: Requires passing all standard coursework, passing three career and technical courses, and passing all 5 sections of the AHSGE.

Credit-Based Endorsement: Requires passing all standard coursework and passing 3 of the 5 sections of the AHSGE, including reading, mathematics, and one other section.

Graduation Certificate: Special education students whose individualized education plans (IEPs) identify the graduation certificate as the appropriate exit credential may receive the graduation certificate. Students whose IEP goals for grades 9-12 are met may participate in graduation ceremonies and receive the graduation certificate.

Alabama High School Diploma Requirements Class of 2016

Minimum requirements for the Alabama High School Diploma are listed below. Advanced levels of courses may substitute for courses listed.

English	4 units
Four credits to include the equivalent of: English 9, 10, 11, & 12	
Mathematics	4 units
Four credits to include the equivalent of: Algebra I, Geometry, and 2 additional units	
Science	4 units
Four credits to include the equivalent of: Biology, Physical Science, and 2 additional units	
Social Studies	4 units
Four credits to include the equivalent of: World History /Geography Since 1500, US History to 1877, US History Since 1877, and American Government/Economics	
Fine Arts	1/2 unit
Computer Applications	1/2 unit
The one credit BTA course will be the requirement for TCS to fulfill this state requirement. The one-half credit Computer Applications course will only be utilized in emergency situations for transfer students or for those not eligible for graduation.	
Physical Education	1 unit
Health	1/2 unit
Electives	5½ units
Total units	24 units
<i>(Must pass all 5 sections of the AHSGE)</i>	

High School Diploma with Advanced Academic Endorsement Requirements Class of 2016

English	4 units
Four credits to include the equivalent of: English 9, 10, 11, & 12	
Mathematics	4 units
Four credits to include the equivalent of: Algebra I, Geometry, Algebra II with Trigonometry and/ 1 additional unit	
Science	4 units
Four credits to include the equivalent of: Biology, Physical Science, and 2 additional	
Social Studies	4 units
World History/Geography since 1500, US History to 1877, US Advanced History since 1877, and American Government /Economics	
Foreign Language	2 units
(Must be the same foreign language)	
Fine Arts	1/2 unit
Computer Applications	1/2 unit
The one credit BTA course will be the requirement for TCS to fulfill this state requirement. The one-half credit Computer Applications course will only be utilized in emergency situations for transfer students or for those not eligible for graduation.	
Physical Education	1 unit
Health	1/2 unit
Electives	3½ units
Total units	24 units
<i>(Must pass all 5 sections of the AHSGE)</i>	

Advanced Career and Technical Endorsement Requirements

English	4 units
Four credits to include the equivalent of: English 9, 10, 11, & 12	
Mathematics	4 units
Four credits to include the equivalent of: Algebra I, Geometry, Algebra II with Trigonometry and/or 1 additional unit	
Science	4 units
Four credits to include the equivalent of: Biology, Physical Science, and 2 additional Science units	
Social Studies	4 units
World History/Geography Since 1500, US History to 1877, US Advanced History Since 1877, and American Government /Economics	
Fine Arts	1/2 unit
Computer Applications	1/2 unit
The one credit BTA course will be the requirement for TCS to fulfill this state requirement. The one-half credit Computer Applications course will only be utilized in emergency situations for transfer students or for those not eligible for graduation.	
Physical Education	1 unit

Health	1/2 unit
Career Technical	3 units
Electives	2½ units
Total units	24 units
<i>(Must pass all 5 sections of the AHSGE)</i>	

Career and Technical Endorsement Requirements

English	4 units
Four credits to include the equivalent of: English 9, 10, 11, & 12	
Mathematics	4 units
Four credits to include the equivalent of: Algebra I, Geometry, and 2 additional units	
Science	4 units
Four credits to include the equivalent of: Biology, Physical Science, and 2 additional units	
Social Studies	4 units
World History/Geography Since 1500, US History to 1877, US History Since 1877, and American Government/Economics	
Fine Arts	1/2 unit
Computer Applications	1/2 unit
The one credit BTA course will be the requirement for TCS to fulfill this state requirement. The one-half credit Computer Applications course will only be utilized in emergency situations for transfer students or for those not eligible for graduation.	
Career Technical	3 units
Physical Education	1 unit
Health	1/2 unit
Electives	2½ unit
Total units	24 units
<i>(Must pass all 5 sections of the AHSGE)</i>	

Credit-Based Endorsement Requirements

The Alabama High School Diploma with the Credit-Based Endorsement is for those students who have not successfully passed all five sections of the *Alabama High School Graduation Examinations* (AHSGE) entering the spring of their senior year. To be eligible, a graduating senior must have:

- Taken the AHSGE each time it has been offered and have not passed one or more subtests of the exam.
- Completed all required coursework for graduation.
- Passed three out of five sections of the AHSGE, including Reading and Mathematics.

- Completed the Application for the Credit-Based Endorsement along with signatures of the parent/guardian, counselor, and principal.

Students who receive the Alabama High School Diploma with the Credit-Based Endorsement as their diploma type may not later change to another diploma type.

English	4 units
Four credits to include the equivalent of: English 9, 10, 11, & 12	
Mathematics	4 units
Four credits to include the equivalent of: Algebra I, Geometry, and 2 additional units	
Science	4 units
Four credits to include the equivalent of: Biology, Physical Science, and 2 additional units	
Social Studies	4 units
World History/Geography Since 1500, US History to 1877, US History Since 1877, and American Government/Economics	
Fine Arts	1/2 unit
Computer Applications	1/2 unit
The one credit BTA course will be the requirement for TCS to fulfill this state requirement. The one-half credit Computer Applications course will only be utilized in emergency situations for transfer students or for those not eligible for graduation.	
Physical Education	1 unit
Health	1/2 unit
Electives	5½ units
Total units	24 units
<i>(Must pass 3 of 5 sections of the AHSGE, including reading and mathematics)</i>	

Honors Diploma Requirements Class of 2016

Minimum requirements for the honors diploma are listed below. Advanced placement courses may substitute for courses listed

English	4 units
Four credits to include the equivalent of: Honors English 9, Honors English 10, Honors English 11, and Honors English 12	
Mathematics	4 units
Four credits to include the equivalent of: Algebra I, Geometry, Algebra II with Trigonometry, and 1 additional advanced math	
Science	4 units
Four credits to include the equivalent of: Honors Biology and 3 credits of advanced sciences to include 1 unit of physical science	
Social Studies	4 units
Four credits to include the equivalent of: Honors World History/Geography Since 1500, 3 advanced level social studies units to include US History to 1877, US History since 1877, Government /Economics	
Fine Arts	1/2 unit

Computer Applications	1/2 unit
The one credit BTA course will be the requirement for TCS to fulfill this state requirement. The one-half credit Computer Applications course will only be utilized in emergency situations for transfer students or for those not eligible for graduation.	
Physical Education	1 unit
Health	1/2 unit
Foreign Language	2 units
<i>(Must be same foreign language)</i>	
Electives	7½ units
Total units	28 units
<i>(Must pass all 5 sections of the AHSGE)</i>	

Advanced Placement (AP) Diploma Requirements – Class of 2016

The AP Diploma requires an AP course in each academic core and an additional academic AP elective course.

English	4 units
Four credits to include the equivalent of: Honors English 9, Honors English 10, Honors English 11, Honors English 12, with 1 AP course	
Mathematics	4 units
Four credits to include the equivalent of: Algebra I, Geometry, Algebra II with Trigonometry, PreCalculus, and 1 AP course	
Science	4 units
Four credits to include the equivalent of: Honors Biology and 3 additional advanced sciences to include 1 unit of physical science and 1 AP course	
Social Studies	4 units
Four credits to include the equivalent of: Honors World History/Geography Since 1500, 3 additional advanced social studies units to include US History to 1877, US History since 1877, Government Economics, and 1 AP course	
Fine Arts	1/2 unit
Computer Applications	1/2 unit
The one credit BTA course will be the requirement for TCS to fulfill this state requirement. The one-half credit Computer Applications course will only be utilized in emergency situations for transfer students or for those not eligible for graduation.	
Physical Education	1 unit
Health	1/2 unit
Foreign Language	2 units
<i>(Must be same foreign language)</i>	
Electives	7½ units
Total units	28 units
<i>(Must pass all 5 sections of the AHSGE)</i>	

International Baccalaureate (IB) Diploma Requirements – Class of 2016

English	4 units
Four credits to include the equivalent of: Honors English 9, Honors English 10, and IB English 11 and 12	
Mathematics	4 units
Four credits to include the equivalent of: Algebra 1, Geometry, Algebra II with Trigonometry, Algebra III w/Statistics, PreCalculus, and AP Calculus or AP Statistics	
Science	4 units
Four credits to include the equivalent of: Honors Biology, Chemistry, IB Chemistry or Physics, IB Biology or AP Physics	
Social Studies	4 units
Four credits to include the equivalent of: Honors World History/Geography Since 1500 History of the Americas 1, IB History of the Americas 2, IB 20 th Century World Studies	
Fine Arts	1/2 unit
Computer Applications	1/2 unit
The one credit BTA course will be the requirement for TCS to fulfill this state requirement. The one-half credit Computer Applications course will only be utilized in emergency situations for transfer students or for those not eligible for graduation.	
Physical Education	1 unit
Health	1/2 unit
Foreign Language	2 units
(Must be the same foreign language through level 4)	
Electives	7½ units
(Must include 2 of the following units: Theory of Knowledge and IB Psychology, Theory of Knowledge and IB Art and Design, or Theory of Knowledge and IB Theatre)	
Total units	28 units
<i>(Must pass all 5 sections of the AHSGE)</i>	
<i>(Must complete all course requirements, including CAS Project to be eligible for IB Diploma)</i>	

Alabama Occupational Diploma Requirements – 2016

The Alabama Occupational Diploma option is designed for the special needs students as recommended by their IEP team. This option provides for meaningful inclusion of students with disabilities in the community and the workplace. Students must earn the course credits described below in order to be awarded the Alabama Occupational Diploma.

English	4 units
Employment English 1, 2, 3, and 4	
Math	4 units
Essential Mathematics-I, II and Algebraic Explorations I and II	
Science	4 units
Life Skills Science 1, 2, & 3 Science Connections 4	

Social Studies	4 units
World History for Living, US History for Living 1 and 2, and Economics/American Government for Living	
Arts Education	1/2 unit
Health Education	1/2 unit
Career/Technical Education	2 units
Cooperative Career/Tech. Ed.	1 unit
Work Force Essentials	1 unit
Physical Education (Lifelong Individualized Fitness Education)	1 unit
Electives	2 units
Total units	24 units
<i>(Must take the AHSGE but not required to pass)</i>	



High School ENGLISH/LANGUAGE ARTS

In grades 9-12, four credits of English are required of all students. Each course includes a survey of various literary types. Passing each grade level in English is a prerequisite for enrolling in the next course. The principal has the responsibility to make the final decision regarding student placement.

200005 English 9

Fee: none 2 semesters, 1 credit
Prerequisite: none

During the course, students study an overview of structural grammar with emphasis on punctuation, capitalization, subject/verb agreement and pronoun/antecedent agreement. Students will study the writing process, with an emphasis on paragraph writing, narrative essays, and an introduction to the process of research that focuses on note taking. The study **of literature will focus on short stories, a Shakespearean play and a novel from the genre of world literature.** Emphasis is on mastering basic literary elements, writing in response to literature, and establishing relevance to contemporary life. This course fulfills the graduation requirement of one credit of English for the standard diploma.

200007 Advanced English 9

Fee: none 2 semesters, 1 credit

Prerequisites: 85 or higher in
Advanced English 8 or student
performance and/or teacher
recommendation.

This course is designed for the advanced college-bound student. This course will meet all the requirements of English 9 but at a more demanding level. This course expands upon students' demonstrated competencies in English usage and mechanics. Students will receive in-depth studies in a variety of literary forms including poetry, novels, essays, short stories, and dramatic literature. Students will concentrate on reading and analyzing works of literature, developing and refining writing skills, researching related topics, and learning to think critically. The workload in this class requires students to work at an accelerated pace.

200006 Pre AP/Honors English 9

Fee: none 2 semesters, 1 credit

Prerequisites: 85 or higher in
English 8 or student performance and/or
teacher recommendation.

This class is designed for students who have the highest level of English achievement and aptitude. Critical thinking, expression and understanding are expected from students to work at an accelerated pace. Honors English 9 is intended for students working above grade level writing emphasizing paragraphing; outlining, essays and research skills will be included. Narrative and compare/contrast papers are the primary focus. In addition, this course is designed to teach skills in oral communication. The study of world literature includes the short story, drama, and the novel. This course fulfills the graduation requirement of one credit of English for the advanced and honors academic diploma.

200009 English 10

Fee: none 2 semesters, 1 credit

Prerequisite: English 9

English 10 integrates the study of selected American literature with writing skills. Grammar and usage are taught as needed to improve writing skills. The primary emphasis is on achieving unity and coherence in writing expository/persuasive paragraphs and essays using different methods of development.

Research skills including documentation will also be taught. The study of American literature from the colonial period to 1877 emphasizes poetry, nonfiction, Shakespearean drama and a novel with writing concentrated on the student's response to the literature in both oral and written assignments. Oral communication skills are incorporated throughout the course. Emphasis is placed on vocabulary development through identifying unfamiliar words in the literature, studying word lists, writing original sentences with vocabulary words, and studying word analogies. This course fulfills the graduation requirement of one credit of English for the standard and advanced diploma.

200011 Advanced English 10

Fee: none 2 semesters, 1 credit

Prerequisite: Advanced English
9 or higher and/or teacher approval

This class is designed for the college bound student. The class will meet all requirements of English 10 but at a more demanding level. The workload in this class requires students to work at an accelerated pace. Students are expected to have achieved a mastery of mechanics that will facilitate more writing, editing, and revising. This course will give a comprehensive study of world literature, early American literature and English grammar through traditional and contemporary selections.

200010 Pre-AP/Honors English 10

Fee: none 2 semesters, 1 credit

Prerequisites: Pre AP/Honors
English 9 or teacher recommendation

This class is designed for students who have the highest level of English achievement and aptitude. Students are expected to have achieved a mastery of mechanics (punctuation, spelling, agreement) that facilitate extensive writing and revision. Through analysis of student writing, students will study rhetorical techniques that foster clear expression. Students write expository and persuasive essays using various modes of development. Research skills focusing on documentation will also be taught. Students will survey American literature from the colonial period to 1877 with emphasis on poetry, drama, short stories, non-fiction, and at least one novel to explore critical and interpretative reading skills, students analyze and respond in writing. Critical thinking skills and sentence construction skills are

encouraged through a study of vocabulary that includes word analogies. Oral communication skills are incorporated throughout the course. This course fulfills the graduation requirement of one credit of English for the advanced and honors academic diploma.

200013 English 11

Fee: none 2 semesters, 1 credit

Prerequisite: English 10

English 11 is a course that combines a study of American Literature with a study of grammar and composition. The students survey outstanding American authors and literature from 1877 to the present representing these literary types: short story, novel, poetry, drama, and essay. The student also learns to communicate thoughts in an organized, coherent form. In addition, the student will learn to use transitional words, write various types of paragraphs, learn the appropriate uses of each type of paragraph, write essays, and learn the research process. Furthermore, this course will review and teach, when appropriate, the skills necessary to pass the Alabama High School Graduation Exam. A research paper is required. This course fulfills the graduation requirement of one credit of English for the standard and advanced diploma.

200014 Pre AP/Honors English 11

Fee: none 2 semesters, 1 credit

Prerequisites: Pre AP/Honors English 10 or teacher recommendation

This class is designed for students who have the highest level of English achievement and aptitude. Critical thinking, expression and understanding are expected from students to work at an accelerated pace. Honors English 11 is designed for students working above grade level. Students are expected to have achieved a mastery of mechanics (punctuation, spelling, agreement) that facilitate extensive writing and revision. Through analysis of student writing, students will study rhetorical techniques that foster clear expression. Students write expository and persuasive essays using various modes of development. Research skills focusing on documentation will also be taught. Students will survey American literature from 1877 period to the present with emphasis on poetry, drama, short stories, non-fiction, and at least one novel to explore critical and interpretative reading skills, students analyze and respond in writing.

Critical thinking skills and sentence construction skills are encouraged through a study of vocabulary that includes word analogies. Oral communication skills are incorporated throughout the course. Furthermore, this course will review and teach, when appropriate, the skills necessary to pass the Alabama High School Graduation Exam. A research paper is required. This course fulfills the graduation requirement of one credit of English for the advanced and honors academic diploma.

200016 Advanced Placement (AP) Language and Composition

Fee: \$25 2 semesters, 1 credit

Prerequisite: Pre AP/Honors English 10, Pre-IB English 10, Pre AP/Honors English 11, IB English 11, or teacher recommendation.

Note: Although this class is recommended for eleventh grade, this class can be taken in either the eleventh or twelfth grade.

The course content of Advanced Placement (AP) Language and Composition is guided by the College Board's The Advanced Placement Course of Study. The course is designed for the advanced English student who wants to earn college credit or advanced placement in college courses based upon the results of the AP examination. The AP English Language and Composition course is designed to help students become skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts and to become skilled writers who can compose for a variety of purposes based on State Course of Standards. Through writing and reading in this course, students should become aware of the interactions among a writer's purposes, audience expectations, and subjects, as well as the way generic conventions and the resources of language contribute to effective writing. American and British literature are a part of the course content in satisfaction of the Alabama Courses of Study for the literature requirements in both grades 11 and 12. Students will receive a 1.0 extra grade point for successful completion of the course and the completion of the AP examination.

200022 International Baccalaureate English 11

Fee: \$25 2 semesters, 1 credit
Prerequisites: English 10 or Pre AP/Honors English 10 or Pre IB English 10 and admission to the IB programme
(Offered at Central High School)

IB English 11 focuses on expository writing through a study of sentence, paragraph, and essay structures. Students study American and world literature as a basis for literary analysis. Works of literature from the IB Prescribed Book List and the IB World Literature List will be included in the course content. Daily preparation is required. Reading assignments outside of class will also be required.

200017 English 12

Fee: none 2 semesters, 1 credit
Prerequisite: English 11

English 12 is a course that integrates a historical survey of British literature with a study of grammar and composition. The students will survey major authors, works, and literary periods of British literature. Students will engage in critical listening, speaking, reading, and writing activities designed to integrate the strands of the language arts and further develop their thinking and problem-solving abilities. The study of literature and the writing process will culminate in a formal research paper. This course fulfills the graduation requirement of one credit of English for the standard and advanced diploma.

200018 Honors English 12

Fee: none 2 semesters, 1 credit
Prerequisite: Pre AP/Honors English 11, IB English 11, American Studies English 11 or teacher recommendation

Honors English 12 is a study of the diction, syntax, and essay patterns required in college freshman English courses. Students will learn the major authors, works and literary periods of British literature, be exposed to all major genres, and learn to write literary analysis essays. In addition to a more detailed, analytical treatment of the reading material required in English 12, the advanced level includes the reading of novels. A major research paper is required. This course fulfills the graduation requirement of one credit of English for the advanced and honors diploma.

200020 Advanced Placement (AP) Literature and Composition

Fee: \$25 2 semesters, 1 credit
Prerequisite: Pre AP/Honors English 10, Pre-IB English 10, Honors English 11, IB English 11, or teacher recommendation

The course content of AP Literature and Composition is guided by the College Board's The Advanced Placement Course of Study. The course is designed for the advanced English student who wants to earn college credit or advanced placement in college courses based upon the results of the AP examination. The AP English Literature and Composition course is designed to engage students in the careful reading and critical analysis of imaginative literature based on the State Course of Studies Standards. Through the close reading of selected texts, students can deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students should consider a work's structure, style, and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. American and British literature are a part of the course content in satisfaction of the Alabama Courses of Study literature requirements for grades 11 and 12. Literary studies include classical and contemporary works from Europe, Great Britain and the United States. Students read extensively for written and verbal analysis. The workload in this class requires students to work at an accelerated pace. Students will receive a 1.0 extra grade point for successful completion of the course and the completion of the AP examination.

200022-01 International Baccalaureate (IB) English 12

Fee: \$25 2 semesters, 1 credit
Prerequisites: IB English 11
(Offered at Central High School)

IB English 12 continues the study of expository writing through a study of paragraph and essay structures and literary selections. Students will study British and World literature as a basis for literary analysis. Works of literature from the IB Prescribed Book List and the IB World Literature List are included in the content of this course. This course prepares students to take the IB examination in May. -

700001 Employment English 1 (grade 9)

700002 Employment English 2 (grade 10)

700003 Employment English 3 (grade 11)

Fee: none 2 semesters, 1 credit each

Prerequisite: IEP team decision

Employment English delineates functional content standards necessary for achieving reading, writing, and language competencies in the workplace and in community life. Reading focuses on decoding, comprehending, and using written information to communicate with others effectively. Language competencies focus on receptive and expressive communication modes, the mechanics, grammar, and usage conventions of standard English. The student is expected to acquire and master the skills in whatever mode of communication is appropriate. These courses fulfill the requirements for the graduation certificate or Alabama Occupational Diploma for students for whom they are appropriate as indicated in the student's IEP.

700004 Employment English 4 (grade 12)

Fee: none 2 semesters, 1 credit

Prerequisite: IEP team decision

Employment English IV provides students opportunities to acquire increased proficiency of previously taught skills. Content focuses on students' preparation for adulthood and the refinement of their communication skills. Whether students plan to enter the world of work or to continue formal education, the program provides both practical and aesthetic experiences. This course fulfills the requirement for the graduation certificate or Alabama Occupational Diploma for students for whom it is appropriate as indicated in the student's IEP.

200043 Speech

Fee: none 2 semesters, 1 credit

Prerequisite: none

This course is designed to enhance students' oral communication skills. Students will participate in group discussions, role-play job interviews, do various types of speeches, study debate, and be introduced to drama. The computer will be used extensively to do research for speeches to inform, persuade and to view sample speeches. Presentation software will also be used.



High School MATHEMATICS

Refer to the Tuscaloosa City Schools Graduation Requirements to determine the applicable course credit required for each grade level. It is recommended that students take at least one math course per academic year. The principal has the responsibility to make the final decision regarding student placement.

210005 Algebra I

Fee: none 2 semesters, 1 credit

Prerequisite: 8th Grade Math or equivalent

The Algebra I course builds on foundational mathematics content learned by students in grades K – 8 by expanding mathematics understanding to provide students with a strong mathematics education. Content is designed to engage students in a variety of mathematical experiences that include the use of reasoning and problem-solving skills, which may be applied to life situations beyond the classroom setting. This course serves as the cornerstone for all high school mathematics courses; therefore, all subsequent mathematics courses require student mastery of the Algebra I content standards. With the adoption of the Common Core Standards, Algebra I will require students to mastery the following **Conceptual Categories (I), Domains (a), and Clusters(i):**

I. Number and Quantity

a. The Real Number System

- i. *Extend the properties of exponents to rational numbers*
- ii. *Use properties of rational and irrational numbers*

b. Quantities

- i. *Reason quantitatively and use units to solve problems*

II. Algebra

a. Seeing Structure in Expressions

- i. *Interpret the structure of expressions*

- ii. Write expressions in equivalent forms to solve problems
- b. Arithmetic with Polynomials and Rational Expressions
 - i. Perform arithmetic operations on polynomials
- c. Creating Equations
 - i. Create equations that describe numbers or relationships
- d. Reasoning with Equations and Inequalities
 - i. Understand solving equations as a process of reasoning and explain the reasoning
 - ii. Solve equations and inequalities in one variable
 - iii. Solve systems of equations
 - iv. Represent and solve equations and inequalities graphically

III. Functions

- a. Interpreting Functions
 - i. Understand the concept of a function and use of function notation
 - ii. Interpret functions that arise in application in terms of context
 - iii. Analyze functions using different representations
- b. Building Functions
 - i. Build a function that models a relationship between two quantities
 - ii. Build new functions from existing functions
- c. Linear, Quadratic, and Exponential Models
 - i. Construct and compare linear, quadratic, and exponential models and solve problems
 - ii. Interpret expressions for functions in terms of the situation they model

IV. Statistics and Probability

- a. Interpreting Categorical and Quantitative Data
 - i. Summarize, represent, and interpret data on a

- single count or measurement variable
 - ii. Summarize, represent, and interpret data on two categorical and quantitative variables
 - iii. Interpret linear models
- b. Conditional Probability and the Rules of Probability
 - i. Understand independence and conditional probability and use them to interpret data

210008 Algebra IA

Fee: none 2 semesters, 1 credit

Prerequisite: eighth grade math or equivalent
Algebra IA is designed for students to begin the study of algebra at a slower pace. The course will cover the first half of the topics normally covered in the traditional Algebra I course. Each student will then be required to take Algebra IB in order to fulfill the complete credit. Students who have passed Algebra I in grade 8 and accepted course credit may not take this course for credit.

210009 Algebra IB

Fee: none 2 semesters, 1 credit

Prerequisite: Algebra IA

Algebra IB is required of all students taking Algebra IA and will cover the second half of the topics covered in an Algebra I course. The topics covered include irrational numbers, quadratic equations, ratio and proportion, linear equations and functions, systems of equations and statistics. Students who have passed Algebra I in grade 8 may not take this course for credit.

210010 Geometry

Fee: none 2 semesters, 1 credit

Prerequisite: Algebra I or Algebra IB

The Geometry course builds on Algebra I concepts and increases students' knowledge of shapes and their properties through geometry-based applications, many of which are observable in aspects of everyday life. This knowledge helps develop visual and spatial sense and strong reasoning skills. The Geometry course requires students to make conjectures and to use reasoning to validate or

negate these conjectures. The use of proofs and constructions is a valuable tool that enhances reasoning skills and enables students to better understand more complex mathematical concepts. Technology should be used to enhance students' mathematical experience, not replace their reasoning abilities. Because of its importance, this Euclidean geometry course is required of all students receiving an Alabama High School Diploma.

210013 Geometry A

Fee: none 2 semesters, 1 credit
Prerequisites: Algebra I or Algebra IB

Note: Geometry A will ONLY be offered to seniors in 2012-2013 who will need 2 math credits next year to graduate. Geometry A and Geometry B will be phased out beginning 2013-2014 due to the rigor of the common core standards.

Geometry A is designed for students who need to begin the study of geometry at a slower pace than the traditional Geometry course. The course will cover the first half of the topics covered in the traditional Geometry course. These topics will include the language and logic of Geometry, parallelism, congruent triangles, triangle inequalities, constructions, and quadrilaterals. Students will then be required to take Geometry B in order to fulfill the Geometry requirement. Students who have passed Geometry may not take this course for credit

210014 Geometry B

Fee: none 2 semesters, 1 credit
Prerequisite: Geometry A

This course will only be offered during the 2012-2013 school year for any student who has completed Geometry A; both Geometry A and B courses will be phased out beginning in 2013-2014. Geometry B is required of all students who take Geometry A and will include the second half of the topics covered in a traditional Geometry course. After completion of this course students will have fulfilled the Geometry requirement. Students who have passed Geometry may not take this course for credit.

210011 Pre AP/Honors Geometry

Fee: none 2 semesters, 1 credit
Prerequisite: Algebra I and teacher recommendation

Pre AP/Honors Geometry is designed for the students who excelled in Algebra I. This course covers the same topics as Geometry with a more in-depth, more rigorous, and challenging analysis of the major concepts and more emphasis on theory. Logical thinking is developed through concentration on direct and indirect proofs.

210015 Algebraic Connections

Fee: none 2 semesters, 1 credit
Prerequisite: Algebra I and Geometry

This course is designed for students who wish to increase their mathematical knowledge and skills prior to enrollment in the Algebra II course or the Algebra II with Trigonometry course. Algebraic Connections expands upon the concepts of Algebra I and Geometry, with an emphasis on application-based problems. This course provides opportunities to incorporate the use of technology through its emphasis on applying functions to make predictions and to calculate outcomes.

210016 Algebra II

Fee: none 2 semesters, 1 credit
Prerequisites: Algebra I and Geometry

Algebra II is a terminating course designed to extend students' algebraic knowledge and skills beyond Algebra I. Students are encouraged to solve problems using a variety of methods that promote the development of improved communication skills and foster a deeper understanding of mathematics. To help students appreciate the power of algebra, application-based problems are incorporated throughout the course. The use of appropriate technology is also encouraged for numerical and graphical investigations. In contrast to the Algebra II With Trigonometry course, Algebra II does not meet the graduation requirements for the Alabama High School Diploma with Advanced Academic Endorsement.

210017 Algebra II with Trigonometry

Fee: none 2 semesters, 1 credit
Prerequisites: Algebra I and Geometry

Algebra II with Trigonometry is a course designed to extend students' knowledge of Algebra I with additional algebraic and trigonometric content. Mastery of the content standards for this course is necessary for student success in higher-level mathematics.

The use of appropriate technology is encouraged for numerical and graphical investigations that enhance analytical comprehension.

210018 Discrete Mathematics

Fee: None 2 semesters, 1 credit
Prerequisite: Algebra I, Geometry and Algebra II with Trigonometry

Note: Discrete Mathematics is a course designed for students who have successfully completed the Algebra II with Trigonometry course and who choose not to continue mathematics study in the Precalculus or Analytical Mathematics courses.

This course is designed for students who have successfully completed Algebra II with Trigonometry and who choose to continue mathematics study in Precalculus or Analytical Mathematics courses. This course may be offered as an elective for students who have completed the four mathematics requirements for graduation. This course also expands upon topics of matrices, combinational reasoning, counting techniques, algorithms, sequences, series, and their applications. Students are expected to work in both individual and group settings to apply problem-solving strategies and to incorporate technological tools that extend beyond traditional instructional practices.

210019 Mathematical Investigations

Fee: None 2 semesters, 1 credit
Prerequisite: Algebra I, Geometry, Algebra II with Trigonometry

This course is designed for students who have successfully completed Algebra II with Trigonometry and who choose not to continue mathematics study in Precalculus or Analytical Mathematics courses. This course may be offered as an elective for students who have completed the four mathematics requirements for graduation. This course is also intended to extend students' knowledge of mathematical development. Beginning with ancient numeration systems, students explore relationships between mathematics and nature, music, art, and architecture as well as the contributions of well-known mathematicians. It extends the scope of prerequisite courses, integrating topics with an emphasis on application-based problem solving. The wide range of topics and applied problems may lend itself to organizing the content into thematic units.

210034 Analytical Mathematics

Fee: None-2 semesters, 1 credit
Prerequisite: Algebra I, Geometry I and Algebra II with Trigonometry

This course is designed for students who have successfully completed Algebra II with Trigonometry. It is considered to be parallel in rigor to Precalculus. This course provides a structured introduction to important areas of emphasis in most postsecondary studies that pursue a concentration in mathematics. Linear algebra, logic, vectors, and matrices are given more in-depth coverage than in previous courses. Application-based problem solving is an integral part of this course. To assist students with numerical and graphical analysis, the use of advanced technological tools is highly recommended. While this course may be taken either prior to or after Precalculus, it is recommended that students who are interested in postsecondary studies in engineering successfully complete the Precalculus course as well as an AP or IB Calculus course.

210020 PreCalculus

Fee: none 2 semesters, 1 credit
Prerequisite: Algebra II with Trigonometry

This course is considered to be a prerequisite for success in calculus and college mathematics. Algebraic, graphical, numerical, and verbal analyses are incorporated during investigations of the Precalculus content standards. Parametric equations, polar relations, vector operations, conic sections, and limits are introduced. Content for this course also includes an expanded study of polynomial and rational functions, trigonometric functions, and logarithmic and exponential functions. Application-based problem solving is an integral part of the course.

210025 Advanced Placement (AP) Calculus A B

Fee: \$25 2 semesters, 1 credits
Prerequisite: PreCalculus or Pre AP/Honors PreCalculus

This course is designed for those students who need a strong background in mathematics. Topics to be included in the first semester are algebraic functions, analytical geometry, series and sequences, and limits. The first semester will include a study of differential calculus with emphasis upon theory and techniques of

differentiation curve tracing, maxima and minima problems, and related rate problems. The second semester includes a study of transcendental functions and integration. Students are introduced to the concept of integration and some applied problems using integration such as area between curves, volumes, and length of arcs. The Advanced Placement Course of Study, published by the College Board, will be used as the guide for this course. A graphing calculator is required for this course. Students will receive a 1.0 extra grade point for successful completion of the course and the completion of the AP examination.

210027 Advanced Placement (AP) Statistics

Fee: \$25 2 semesters, 1 credit
Prerequisite: PreCalculus Pre AP/Honors
PreCalculus

This course is designed as an advanced mathematics course for students interested in pursuing a non-engineering curriculum in college. Topics to be included are: organizational techniques, required for mastery of descriptive statistics, measures of central tendency and dispersion, probability, both discrete and continuous probability distributions, confidence intervals, hypotheses tests, linear correlation and regression analysis, as well as other nonparametric methods of data comparison. Daily preparation required. Additional assignments, AP practices and coaching sessions on weekends or evenings may also be required for preparation for the advanced placement Statistics exam. The goal of this course is success on the AP Statistics exam. Students will receive a 1.0 extra grade point for successful completion of the course and the completion of the AP examination.

210028 Math 11/IB Math SL

Fee: None 2 semesters, 1 credit
Prerequisite: Algebra II with Trigonometry or

This is an IB mathematics course at the Standard Level which will provide students with a comprehensive and sound mathematical background in preparation for future studies in AP Calculus and AP Statistics in grades 11-12. Students will complete their study of pre-calculus and begin an introductory program in differential and integral calculus. Students will submit a portfolio of two assignments based on areas in the syllabus and involving the following activities: mathematical investigation and

mathematical modeling. Students are required to write a research paper and may continue their mathematical research working on the IB Essays. This course requires a variety of IB assessments.

700010 Essential Mathematics I

Fee: none 2 semesters, 1 credit
Prerequisites: IEP team decision

This course provides students with the opportunity to learn basic operations involving whole numbers, decimals, and fractions. Consumer-related skills at this level include Essential Skills Math computing change and developing check-writing skills. Basic geometry skills at this level focus on measurement and identification of geometric shapes and representations.

700011 Essential Mathematics II

Fee: none 2 semesters, 1 credit
Prerequisites: IEP team decision

This course focuses on basic operations involving decimals and percents, laws of exponents, and adding subtracting to determine elapsed time. Consumer related skills include reconciling bank statements and computing pay rates. Additional content involves identifying basic functions and performing basic graphing skills. Basic geometry skills include determining perimeter and area of various shapes and measuring angles.

700012 Algebraic Explorations I

Fee: none 2 semesters, 1 credit
Prerequisites: IEP team decision

This course focuses on basic operations involving integers and numerical expressions. Consumer-related skills include calculating taxes, while geometry skills include complementary and supplementary angles and the measurement of circles and surface area of rectangular solids. Data reporting, interpreting data, and solving proportions are also addressed in this course.

700013 Algebraic Explorations II

Fee: none 2 semesters, 1 credit

Prerequisite: IEP team decision

This course provides students with an exploration of basic algebraic concepts such as graphing and analyzing linear equations, solving problems using the Pythagorean Theorem, and deduction relationships including congruence and similarity. Consumer-related skills focus on problems that involve budgets, loans, credit purchases and measurement.

**High School
HISTORY, SOCIAL STUDIES,
GOVERNMENT**

Refer to the Tuscaloosa City Schools Graduation Requirements to determine the applicable course credit required for each grade level. The principal has the responsibility to make the final decision regarding student placement.

230013 World History: 1500 to Present

Fee: none 2 semesters, 1 credit

Prerequisite: none

This course encompasses a study of world history from 1500 to the present. It builds on the knowledge and skills that students have acquired from their previous studies in history. Students study and analyze global issues and the impact they may have on society, politics, the economy, and the environment. Emphasis is placed on geographic impact, the development of civic knowledge/responsibilities, and emerging economic systems. This course fulfills the graduation requirement for one credit of social studies for the standard and advanced diploma. Preparation for the Alabama High School Graduation Examination (AHSGE) Social Studies is a component of this course.

230014 Honors World History: 1500 to Present

Fee: none 2 semesters, 1 credit

Prerequisite: Teacher recommendation

Students choosing to take this course at the honors level will cover more material, in depth, and at an accelerated rate. Students explore the same topics as the World History and Geography course, but the students will have a higher emphasis placed on critical thinking and examinations of historical texts.

Students in this course will study world history from the Renaissance to the present, and directs students to think critically about the various forces that combined to shape the world today. Emphasis is placed on geographic impact development of civic knowledge/responsibilities, and emerging economic systems within a chronological context. This course fulfills the graduation requirement for one credit of social studies for the advanced and honors academic diploma. Preparation for the Alabama High School Graduation Examination (AHSGE) Social Studies is a component of this course.

230016 United States History to 1877

Fee: none 2 semesters, 1 credit

Prerequisite: successful completion of ninth grade course

This course is a survey of US History from the Age of Exploration to 1877. Its primary emphasis is on the political, social, economic, and territorial development of this country and the emergence of the US in a world leadership role. This course fulfills the graduation requirement for one credit of social studies for the standard and advanced diploma. Preparation for the Alabama High School Graduation Examination (AHSGE) Social Studies is a component of this course.

230017 Pre AP/Honors United States History to 1877

Fee: none 2 semesters, 1 credit

Prerequisite: Pre AP/Honors World History: 1500 to Present or teacher recommendation

This course will cover the same historic development of American history from the discovery of our country to 1877. The honors course will go far beyond the regular course in scope and preparation time for the student. Several different classroom activities such as debate, journal articles, diaries, counter-factual

assignments, and research papers will be utilized. The course will emphasize document based questions where the student has to read and interpret graphs, tables, and charts much like the student will encounter on the advanced placement exam. This course is a survey of US History from the Age of Exploration to 1877. Its primary emphasis is on the political, social, economic, and territorial development of this country and the emergence of the US in a world leadership role. Students in this course will study topics in more depth and reflect on learning through advanced writing activities, debates, and journals articles. This course fulfills the graduation requirement for one credit of social studies for the advanced and honors diploma. Preparation for the Alabama High School Graduation Examination (AHSGE) Social Studies is a component of this course.

230019 United States History: from 1877 to the Present

Fee: none 2 semesters, 1 credit
Prerequisite: none

This course is a survey of United States History from 1877 to the present. Its principal emphasis is on the political, social, economic, and territorial development of this country and the emergence of the US in a world leadership role. This course fulfills the graduation requirement for one credit of social studies for the standard and advanced diploma. Preparation for the Alabama High School Graduation Examination (AHSGE) Social Studies is a component of this course.

230020 Honors United States History 1877 to Present

Fee: \$25 2 semesters, 1 credit
Prerequisite: Pre AP/Honors United States History to 1877 or Pre-IB History of the Americas I

This honors course is a continuation of studies begun in grade 10, Pre AP/Honors United States History to 1877 that introduced the economic, geographic, social, and political development of the United States. Beginning with the post-Reconstruction United States and its shift into a more industrialized society, the course continues through the twentieth century to the present. Students are involved in a chronological study of major events, issues, movements, and leaders of the United States through the present from both a national and an Alabama perspective.

Students are actively involved in and are challenged by the level of expectation inherent in the required content of this course. With more fully developed skills in abstract thinking, students compare, analyze, and explain events and developments rather than simply list or identify them. Family stories or interviews of historical events such as: WWI, experienced framing, experience with union activity, Great Depression, WWII, Cold War fears, Kennedy administration, protest of the 60's, memories of Watergate, Bicentennial, and Challenger accident are included.

230022 Advanced Placement (AP) United States History

Fee: \$25 2 semesters, 1 credit
Prerequisite: Pre AP/Honors United States History to 1877 or Pre-IB History of the Americas I

The advanced placement course is designed for the motivated student desiring an in-depth and challenging study of United States history AP students should possess excellent study habits and analytical/writing skills. Learning activities include historical reenactments/simulations, debate, cooperative group work, research, and discussion. The program prepares students for college by making demands upon them equivalent to those of an introductory college course. The Advanced Placement Course of Study, published by the College Board, will be used as the guide for this course. College credit may be granted based on the examination score and the guidelines of individual colleges and universities. Students will receive a 1.0 extra grade point for successful completion of the course and the completion of the AP examination.

230024 International Baccalaureate (IB) History of the Americas 1

Fee: none 2 semesters, 1 credit
Prerequisite: Admission to the IB programme
(Offered at Central High School)

International Baccalaureate (IB) History of the Americas 1 provides students with an in-depth thematic study of the Americas. This course introduces students to history as a discipline and helps students understand the processes of historical inquiry. The course is a detailed study of the political, social, economic, and cultural history of the nations of the Americas, with emphasis on the history of the United States up

to the late 1800s. Students complete one or more written research projects on a historical subject of their choice. Research projects are presented to a group of Pre IB and IB peers for evaluation.

230026 International Baccalaureate (IB) History of The Americas 2

Fee: none 2 semesters, 1 credit

Prerequisite: Pre IB History of the America 1 or AP US History and admission to the IB program
(Offered at Central High School)

History of the Americas 2 provides students with an in-depth thematic study of the Americas. The course is a detailed study of the political, social, economic, and cultural history of the nations of the Americas, with emphasis on the history of the United States in the 20th century. Students complete one or more written research projects on a historical subject of their choice. Research projects are presented to a group of Pre IB and IB peers for evaluation.

230041 United States Government

Fee: none 1 semester, ½ credit

Prerequisite: none

This course serves as the capstone of the k-12 curriculum. Students in this course gain the knowledge and skills necessary for civic responsibility. In American Government students draw on the knowledge and skills from their previous study of United States, world history, and geography as background information. The course focuses on the origins and functions of government as well as the intellectual influences in the development of representative democracy in America. Through a detailed study of the United States Constitution, students become knowledgeable of the structure and workings of government at all levels in the state and nation. Remediation activities for students who have not yet passed the Social Studies portion of the Alabama High School Graduation Exam (AHSGE) are included in this course.

230051 Economics

Fee: none 1 semester, ½ credit

Prerequisite: none

Economics provides students with detailed knowledge in the workings of modern-day economic systems, in particular the American capitalist system. Students acquire information about basic economic concepts and skills in the

interpretation of graphic economic data. Students apply information and skills to the analysis of issues and problems in contemporary economic systems. The study of economics includes the use and interpretation of maps, charts, graphs, tables, and other expressions of statistical data. Remediation activities for students who have not yet passed the Social Studies portion of the Alabama High School Graduation Exam (AHSGE) are included in this course.

230042 Honors United States Government

Fee: none 1 semester, ½ credit

Prerequisite: Pre

AP/Honors United States History from 1877 to the Present

US Government, Honors will go far beyond the regular course in scope and preparation time for the student. US Government course serves as the capstone of the K-12 curriculum. Students in this course gain the knowledge and skills necessary for civic responsibility. In American Government, students draw on the knowledge and skills from their previous study of United States, world history, and geography as background information. The course focuses on the origins and functions of government as well as the intellectual influences in the development of representative democracy in America. Through a detailed study of the United States Constitution, students become knowledgeable of the structure and workings of government at all levels in the state and nation. Remediation activities for students who have not yet passed the Social Studies portion of the Alabama High School Graduation Exam (AHSGE) are included in this course.

230052 Honors Economics

Fee: none 1 semester, ½ credit

Prerequisite: Pre

AP/Honors United States History from 1877 to the Present

Honors Economics will go far beyond the regular course in scope and preparation time for the student. Economics provides students with detailed knowledge in the workings of modern-day economic systems, in particular the American capitalist system. Students acquire information about basic economic concepts and skills in the interpretation of graphic economic data. Students apply information and skills to the analysis of issues and problems in contemporary economic systems. The study of economics includes the use and interpretation of

maps, charts, graphs, tables, and other expressions of statistical data. Remediation activities for students who have not yet passed the Social Studies portion of the Alabama High School Graduation Exam (AHSGE) are included in this course.

230047 Advanced Placement (AP) United States Government and Politics

Fee: \$25 1 semester, ½ credit
Prerequisite: U. S. History to 1877 and U.S. History since 1877

230054 Advanced Placement Macroeconomics

Fee: \$25 1 semester, ½ credit
Prerequisite: U. S. History to 1877 and U.S. History since 1877

The focus of this macroeconomics course is the U.S. capitalist system. The content will help students develop critical thinking skills through the understanding, application, and analysis of fundamental economic concepts. Students will weigh the merits of different economic theories and understand the divergent policies that ensue. This course will illustrate the derivation of major statistical measures and how to use models such as graphs, to predict the outcome of domestic and foreign policy decisions. Students will be taught the explanation of Keynesian Economics, as well as the use of monetary and fiscal policy. Completion of the course and a score of three or better on the AP exam may earn college credit. Students will receive a 1.0 extra grade point for successful completion of the course and the completion of the AP examination.

230055 Advanced Placement Microeconomics

Fee: \$25 1 semester, ½ credit
Prerequisite: Pre AP/Honors United States History from 1877 to the Present

The focus of this microeconomics course is the study of the economic behavior of individuals and firms within individual markets. These markets include: perfect competition, monopoly, and imperfect competition. The content will help students develop critical thinking skills through understanding the application and analysis of fundamental economic concepts. Students will weigh the merits of different economic theories and understand the divergent policies that ensue. The microeconomics student will also

understand the tools and methods economists use for problem solving as well as develop a basic understanding of markets and market failures. The course will also include an understanding of factor markets including labor and capital. Completion of the course and a score of three on the AP exam may earn college credit. Students will receive a 1.0 extra grade point for successful completion of the course and the completion of the AP examination.

700031 World History for Living (Grade 9)

Fee: none 2 semesters, 1 credit
Prerequisite: IEP team decision

This course is a study of world history from 1500 to the present. Students are able to apply and utilize their knowledge to develop informed opinions about issues such as the quest for peace, human rights, trade, global ecology and the impact each has on everyday life situations.

700032 United States History for Living I (Grade 10)

Fee: none 2 semesters, 1 credit
Prerequisite: IEP team decision

This course follows a chronological study for major events, issues, movements, leaders, and groups of people of the United States through 1877 from a national and Alabama perspective.

700033 United States History for Living II (Grade 11)

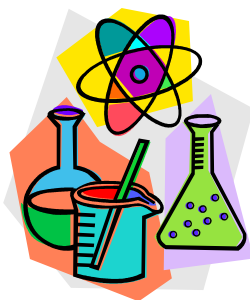
Fee: none 2 semesters, 1 credit
Prerequisite: IEP team decision

This course begins with the post-Reconstruction United States and its shift into a more industrialized society and continues through the twentieth century to the present.

700034 United States Government and Economics for Living (Grade 12)

Fee: none 2 semesters, 1 credit
Prerequisite: IEP team decision

This course focuses on the origins, structure, and functions of government at all levels. It also includes a detailed study of the Constitution of the United States and its provisions. Students learn about economic systems and theory. Students gain skills that will enable them to anticipate changes in economic conditions and how to adjust to the changes to improve their lives and their communities.



High School SCIENCE

Refer to the Tuscaloosa City Schools Graduation Requirements to determine the applicable course credit for each grade level. The principal has the responsibility to make the final decision regarding student placement.

220011 Biology

Fee: none 2 semesters, 1 credit
Prerequisite: none

Biology is designed to teach students the basic principles of scientific functions relating to everyday living. Topics of study include the following: basic biological principles, scientific method, the cell, a survey of the five kingdoms of living things, and a survey of ecology. Biology features hands-on laboratory experiences and use of appropriate technological resources. This course fulfills the graduation requirement for one credit of Biology for the standard diploma.

220012 Pre AP/Honors Biology

Fee: \$25 2 semesters, 1 credit
Prerequisite: Advanced science or teacher recommendation

Due to the pace of this course, a student must have demonstrated academic excellence in previous science and math courses.

This course is intended for students who are interested in an accelerated program. Honors Biology will prepare students who may consider taking AP Biology or are interested in a **science-related career after high school**. This course generally covers the same themes as the Advanced Biology course, but it has correlation to contemporary molecular biology. Topics to be covered will include safety, scientific method, ecology, classification and the

six kingdoms, organic chemistry, cell biology, cell energies, genetics (DNA structure and function), evolution, and organismal biology. Topics are studied in a way that better prepares students for success in Advanced Placement Biology. Students are required to analyze and synthesize concepts and draw inferences from new information. Laboratory work is designed to emphasize investigation rather than illustration and greater emphasis is placed on independent thinking.

220014 Advanced Placement (AP) Biology

Fee: \$25 per term 2 semesters, 2 credits, 2 periods (1 for class and 1 for lab)
Prerequisites: Pre AP/Honors Biology, Chemistry, and application

This course is designed for college bound students who will take Biology to satisfy the core curriculum of most colleges as freshman and/or students who wish to take tests for advanced standing in college Biology. Students wishing to take the AP test given in May must complete both terms of the course; the test includes information from both terms. Students will receive a 1.0 extra grade point for successful completion of the course and the completion of the AP examination.

220016 International Baccalaureate (IB) Biology 11

220016-01 International Baccalaureate (IB) Biology 12

Fee: \$25 2 semesters, 1 credit
Prerequisites: Pre AP/Honors or Pre IB Biology and Chemistry or Pre IB Chemistry (Offered at Central High School)

This course is designed for college bound students who will take Biology to satisfy the core curriculum of most colleges as freshman and/or students who wish to take tests for advanced standing in college Biology. IB students must be admitted to the IB programme and must take both IB Biology 11 and IB Biology 12 in order to satisfy IB diploma requirements. The IB Course of Study will be used as guides for the course.

220017 Genetics

Fee: \$25 2 semesters, 1 credit

Prerequisites: Biology or Pre AP/Honors Biology and Chemistry

This advanced science course is an introduction to genetics. Students explore the dynamic world of molecular biology through lecture, discussion, hands-on activities, and laboratory experiments. The course covers biological concepts and scientific techniques currently in use in society, such as gene therapy and forensic biology. This course will count towards the Advanced Academic Diploma.

220023 Zoology

Fee: \$25 2 semesters, 1 credit

Prerequisite: Pre AP/Honors Biology or Biology

Zoology is an advanced course for the study of animals. A survey of the animal kingdom, including identification, distribution, structure, and function of each animal group, are topics included in this course. Major emphasis will be placed upon the study of vertebrates. This course fulfills the graduation requirement of one credit of life science for the advanced academic or standard diploma.

220026 Human Anatomy and Physiology

Fee: \$25 2 semesters, 1 credit

Prerequisite: Biology

This course focuses on the fundamental structure and functions of the human body. Topics of study include diseases, disease prevention, and environmental conditions that affect humans. This course fulfills the graduation requirement of one credit of life science for the standard diploma.

220028 Advanced Human Anatomy and Physiology

Fee: \$25 2 semesters, 1 credit

Prerequisites: Biology, Pre AP/Honors Biology, or Chemistry

This advanced course includes the study of the structure and function of the human body. Interaction between systems and medical applications will be stressed. The hands-on investigative approach is used to allow the students to be actively engaged in learning. Numerous projects, labs, activities and field trips will be included to enhance student learning.

220029 Environmental Science

Fee: \$25 2 semesters, 1 credit

Prerequisite: none

Environmental Science is an integrated science course designed to present all the natural sciences (biology, chemistry, physics, and earth science) in a single course of study. An environmental approach will focus on four major themes of energy, systems and interactions, structure and function, and stability and change.

220034 Forensic Science

Fee: \$25 2 semesters, 1 credit

Prerequisite: Biology

Forensic Science focuses on the analysis of evidence collection, the decomposition process, crime scenes, skeletal remains, toxicology, and document validity. Case studies and crime scenarios help students understand the implications and complicated issues that are emerging as the science of forensics continues to develop.

220051 Physical Science

Fee: none 2 semesters, 1 credit

Prerequisite: none

Physical Science is a survey course of the concepts taught in chemistry and physics. Topics of study include scientific methods, properties of matter, the physical environment, and the forces of motion. It fulfills the graduation requirement for one credit of Physical Science for the high school diploma.

220061 Chemistry

Fee: \$25 2 semesters, 1 credit

Prerequisites: Algebra I or equivalent

Chemistry is a course designed for very capable science students. Topics include the chemistry core associated with basic chemistry concepts of the structure, forms, changes, availability, and uses of matter and energy. It also includes the study of the types of reactions, thermochemistry, chemical kinetics, chemicals equilibrium, acids/bases, solution equilibrium, electrochemistry, and organic chemistry. Students are required to analyze and synthesize concepts and draw inferences from new information. Laboratory work is designed to emphasize investigation and independent thinking.

220062 Pre AP/Honors Chemistry

Fee: \$25 2 semesters, 1 credit

Prerequisite: Pre AP/Honors Biology or teacher recommendation

Honors Chemistry is designed for students who are highly motivated and interested in seeking a career in a science related field. This course moves at a much faster pace than the regular chemistry class and, as a result, a greater range and depth of material will be covered.

220064 Advanced Placement (AP) Chemistry

Fee: \$25 per term 2 semesters, 2 credits, 2 periods (1 for class and 1 for lab)

Prerequisite: Chemistry

Advanced Placement (AP) Chemistry is a laboratory-intensive course covering most topics of a first year college chemistry course. These topics include greater in-depth study of atomic theory, stoichiometry, kinetics, equilibrium, thermodynamics, electrochemistry, organic chemistry and nuclear chemistry. The Advanced Placement Course of Study published by the College Board will be used as the guide for this course. Students who wish to earn advanced placement college credit must score well on the AP Chemistry examination. Students will receive a 1.0 extra grade point for successful completion of the course and the completion of the AP examination.

220065 International Baccalaureate (IB) Chemistry 11

Fee: \$25 2 semesters, 1 credit

Prerequisite: Chemistry or Pre-IB Chemistry
(Offered at Central High School)

IB Chemistry is a laboratory-intensive course covering most topics of a first year college chemistry course. These topics include greater in-depth study of atomic theory, stoichiometry, kinetics, equilibrium, thermodynamics, electrochemistry, organic chemistry and nuclear chemistry. To earn credit for IB Chemistry, students must be enrolled in the IB Programme.

220065-01 International Baccalaureate (IB) Chemistry 12

Fee: \$25 2 semesters, 1 credit

Prerequisite: Chemistry or Pre-IB Chemistry
(Offered at Central High School)

IB Chemistry is a laboratory-intensive course covering most topics of a first year college chemistry course. These topics include greater in-depth study of atomic theory, stoichiometry, kinetics, equilibrium, thermodynamics, electrochemistry, organic chemistry and nuclear chemistry. To earn credit for IB Chemistry, students must be enrolled in the IB Programme.

220068 Chemical Principles

Fee: none 2 semesters, 1 credit (for elective only)

Prerequisite: none

Chemical Principles is the study of matter and how it combines and changes. Students enrolled in this course study units and measurements used in chemistry applications, properties of matter, classification of matter, the structure of matter, the Periodic Law, families of elements, interactions of matter, chemical bonding, chemical reactions, solution chemistry, carbon chemistry, and nuclear chemistry. **Note: This course cannot count as one of the four required core credits to meet state graduation requirements without a state-approved waiver.**

220071 Physics

Fee: \$25 2 semesters, 1 credit

Prerequisite: Algebra II with Trigonometry

Physics is an advanced science course concerned with the physical world and how it functions. It is a quantitative course and is heavily dependent on students' mathematical abilities. Daily preparation is required. Students perform laboratory experiments, individually or in groups. The topics covered in Physics include the universe, matter, energy, force, and motion. Students considering career in the fields of medicine, engineering, math or science should take this course.

220074 Advanced Placement(AP)Physics B

Fee: \$25 per term 2 semesters,
2 credits, 2 periods (1 for class and 1 for lab)
Prerequisites: Algebra II with Trigonometry and
Physics or alternative AP science class

This course fulfills the graduation requirement of one unit of physical science for the advanced academic diploma. This is a college level course. Daily preparation is required. A study of physics encourages students to become scientifically literate by helping them gain a deeper understanding of the physical world and the universe in which they live. Students will explore common phenomena (such as motion and forces) and learn how things work. Topics will include mechanics, heat, light, sound, electricity, and magnetism, with the overarching themes of matter and energy. Time will be spent on astronomy and space, as well as advanced topics such as relativity and nuclear physics. Students will also apply mechanics to engineering with projects such as bridge and rocket building. Students must be able to complete labs and projects both individually and in groups. Students planning to take physics in college for science majors and competitive fields such as engineering, medicine, physical therapy, etc. are strongly encouraged to take AP Physics. Students will receive a 1.0 extra grade point for successful completion of the course and the completion of the AP examination.

700021 Life Skills Science 1: Physical Science

Fee: none 2 semesters, 1 credit
Prerequisite: IEP team decision

This course is designed to provide students with a practical knowledge of physical science including scientific process and application skills, the periodic table, solutions, bonding, chemical formulas, physical and chemical changes, gravitational, electromagnetic, and nuclear forces, motion, energy, energy transformation, electricity and magnetism science, and metric units.

700022 Life Skills Science 2: Biology

Fee: none 2 semesters, 1 credit
Prerequisite: IEP team decision

This course is designed to provide students with a practical knowledge of biology including scientific process and application skills, cell processes, cell theory, photosynthesis and

cellular respiration, genetics, classification, plants, animals, ecology, and biochemical cycles.

700023 Life Skills Science 3: Earth and Space

Fee: none 2 semesters, 1 credit
Prerequisite: IEP team decision

This course is designed to provide students with practical knowledge of environmental science including scientific process and application skills, natural and human impact on the environment, carrying capacity, renewable and non-renewable energy resources, properties and importance of water, land use practices, and composition and erosion of soil.

700024 Science Connections 4: Human Anatomy and Physiology

Fee: none 2 semesters, 1 credit
Prerequisite: IEP team decision

This course is designed to provide students with practical knowledge of human anatomy and physiology including scientific process and application skills; anatomical terminology; structure and function of cells, tissue, and body systems; biochemistry; and system regulation and integration.

High School Elective Courses

800010 Other Academic Assignment

Fee: none 9-weeks minimum, no credit

This course will offer a variety of intervention and enrichment opportunities for students during the "bonus period." Intervention courses will support student deficiencies in core content areas, as well as the AHSGE. Enrichment opportunities will be provided for all of the students who have met academic requirements and will be tailored to fit the interests of local schools (i.e. guitar club, math club, gardening). As students pass the AHSGE or meet core content requirements, they will be allowed to choose an enrichment course.

200061 Voyager Reading

Fee: None 2 semesters, No credit
Prerequisite: Score of 2 or below on ARMT

This course is designed to help students increase reading comprehension and skills using high-interest, low-level texts while incorporating online assessments and practices.

700042 Occupational Seminar

Fee: None 2 semesters, 1 credit
Prerequisite: IEP specifications and placement

This course may be taken as an elective credit by students for whom it is appropriate. Topics include instruction in note-taking, listening to learn, reading for comprehension, test taking strategies, AHSGE review, interview skills, resume building, interpersonal communication, career exploration, keyboarding, word processing, and internet use. In addition, students pursuing the Alabama Occupational Diploma will utilize this class as a release time for job training and job shadowing within and outside the school setting. This course will serve as an elective credit only. It will not satisfy career technical requirements for the occupational diploma.

800010-06 Interdisciplinary Tutoring

Fee: none 2 semesters, 1 credit
Prerequisite: IEP

This elective course is designed to provide additional instruction and assistance with regular academic course work. Additional instruction will be provided in the areas of study skills, organizational skills, and test-taking skills. This course is available only to students with IEPs requiring the course.

800010-05 ACT Prep

Fee: \$25.00 1 semester ½ credit
Prerequisite: none

In this class students prepare for the English, Math, Science, Reading and Writing sections of the ACT. Since ACT scores determine college acceptance, course placement, and scholarship opportunities, students benefit by making their best score. By becoming “test wise” through online practice tests, ACT-developed practice tests, flash cards, and other resources, students can achieve that goal. In addition, students explore career planning, college options, and financial aid.

600301 Introduction to the World of Work 1

Fee: none 2 semesters, 1 credit
Prerequisite: IEP team decision

This elective course is designed to prepare students who are in need of career readiness skills. This course is available only to students with IEPs requiring the course.

700041 Introduction to the World of Work 2

Fee: none 2 semesters, 1 credit
Prerequisite: IEP team decision

This course assists in the development of career and independent living skills through community based instruction. This course is available only to students with IEPs requiring the course.

800010-04 Freshman Leadership Academy/Seminar

Fee: none, 1 semester, ½ credit
Prerequisite: None

This course is designed to help freshmen understand the importance of high school and the skills required to graduate on time. Topics to be covered: transition to high school, high school requirements, four-year high school plan, career exploration, college exploration, leadership skills, Alabama High School Graduation Exam Preparation, and study skills.

**230212 Military History of the World**

Fee: \$25 2 semesters, 1 credit

This course is designed to provide students with the opportunity to discover how the military has shaped the history of mankind. The class will begin with earliest battles in ancient Mesopotamia to today's war in Iraq. The course will allow students to explore how conflicts have had the power to shape and change the world.

480041 JROTC Leadership Education and Training (LET 1)

Fee: none 2 semesters, 1 credit
Prerequisite: Senior Army Instructor (SAI) approval

NOTE: JROTC students may take only one LET level per academic school year. (Offered at Central High School and Paul Bryant High School [Marines])

The first year of JROTC (LET 1) includes (1) The Spirit of American Citizenship and JROTC introduction, (2) Techniques of Communication, (3) Leadership, (4) Cadet Challenge (Physical Fitness), (5) Leadership Lab, (6) First Aid and Health, (7) Map Reading, (8) Overview of Citizenship through American Military History, (9) Your American Citizenship, and (10) Rifle Marksmanship.

480042 JROTC Leadership Education and Training (LET 2)

480043 JROTC Leadership Education and Training (LET 3)

480044 JROTC Leadership Education and Training (LET 4)

Fee: none 2 semesters, 1 credit
Prerequisite: previous JROTC LET course

NOTE: JROTC students may take only one LET level per academic school year. (Offered at Central High School and Paul Bryant High School [Marines])

Subsequent JROTC courses continue learning and application of concepts and skills begun in JROTC LET 1. Students earn leadership positions based on their prior experiences.

800008-14 JROTC Precision Drill Team

Fee: none 2 semesters, 1 credit
Prerequisites: Enrolled in JROTC; taking LET 1, 2, 3 or 4, and SAI approval

(Offered at Central High School and Paul Bryant High School [Marines])

Precision Drill Team will teach JROTC students basic army drill and ceremony in accordance with army Field Manual 22-5 as well as precise fancy drill movements. Students will learn teamwork through the practice of team drill movements. The Precision Drill Team will perform during the year in local holiday events,

parades, school demonstrations, and statewide competitions.

800010-03 AHSGE Tutorial

Fee: none 1 semester, ½ credit
Prerequisite: Counselor approval

The Alabama High School Graduation Examination Tutorial course is designed for the student who needs remediation on the skills tested on the examination required for graduation. The course will address skills in all areas of reading, language, mathematics, science and social studies. The course will aid students in test taking skills.

800008-04 Library and Information Services

Fee: none 1 semester, ½ credit (for 2012-2013 school year only) Prerequisites: Application required

This course is designed to provide students with the opportunity to become familiar with library operations and information resources. Students will be expected to assist students and teachers in locating print, non-print, and computers-based information within the library network and through telecommunications. In addition, they will gain experience in many other aspects of library activities, including, but not limited to circulation, processing of materials, operating library equipment, and taking inventory. Students must be willing to work with others and take responsibility seriously.

800008-05 Guidance Exploratory Experiences

Fee: none 1 semester, ½ credit (for 2012-2013 school year only)
Application required

This course is designed to provide students the opportunity to become familiar with the operation of pupil personnel services. Students will gain experience in receptionist duties, typing, filing, student registration procedures, and helping counselors with various tasks. Promptness, office etiquette, work attitude, and communication skills are stressed.

800008-06 Office Exploratory Experiences

Fee: none 1 semester, ½ credit (for 2012-2013 school year only) Application required

This course is designed to familiarize students with school services and procedures. They will gain experience in receptionist duties, typing, filing, answering the telephone, and helping office personnel with various tasks. Promptness, office etiquette, work attitude, and communication skills are stressed.

200051 Journalism 1

Fee: \$25 2 semesters, 1 credit
Application required

In this course students learn to write like a journalist. They will learn to write news stories, feature stories, sports stories, columns, editorials, and reviews. Students will learn reporting, and editing skills. In addition, photography and newspaper design will be studied. Students will have an opportunity to draw cartoons and graphic art. Students will sell ads and use a computer to write, edit and design pages for the school newspaper. Students will learn to safely use the Internet to blog, network, post photographs and video online. All course work is geared toward producing the student print and online newspaper.

200052 Journalism 2

Fee: \$25 2 semesters, 1 credit
Prerequisite: application

This course is designed for students who have some knowledge of and an interest in newspaper writing and design. In this course, students have opportunities to enhance their reporting, writing, and editing skills. They will sell ads, take photographs, and use the computer to design ads, information graphics and newspaper pages. Students will have opportunities to draw cartoons and graphic art. Students will learn to safely use the Internet to blog, network, post photographs and video online. All course work is geared toward producing the student print and online newspaper.

800010-40 Scholars Bowl

Fee: none 1 semester, no credit
Application required

The purpose of this course is to research materials for Scholar Bowl competitions.

800010-01 Studies in Contemporary Problems and Student Affairs

Fee: none 1 semester, ½ credit,
Application required

The course is organized as a student training program in areas related to the school and community. It will also assist the student in becoming more aware of state, national and international concerns.

800001 Yearbook 1**800002 Yearbook 2**

Fee: \$25 2 semesters, 1 credit
Application required

In this course, students will learn to write like a journalist. In addition, photography and yearbook design will be studied. Students will use a computer to write, edit, and design pages for the school yearbook. Students will learn to safely use the Internet to blog, network, post photographs and video online. All course work is geared toward producing the school yearbook.

230029 Advanced Placement (AP) European History

Fee: \$25 2 semesters, 1 credit
Prerequisite: none

The study of European history since 1450 introduces students to cultural, economic, political, and social development that played a fundamental role in shaping the world in which they live. Empowered with this knowledge, students will gain the context for understanding the development of contemporary institutions, the role of continuity and change in present-day society and politics, and the evolution of current forms of artistic expression and intellectual discourse. In addition to providing a basic narrative of events and movements, the goals of the AP program in European History are to develop (a) an understanding of some of the principal themes in modern European History, b) an ability to analyze historical evidence and historical interpretation, and (c) an ability to express historical understanding in writing.

Students will receive a 1.0 extra grade point for successful completion of the course and the completion of the AP examination.

230071 Psychology

Fee: none 1 semester, ½ credit,
Prerequisite: none

The objective of psychology as a social science is to understand, explain, and predict the behavior of individuals. This course employs basic theories, concepts, principles, and research findings to analyze human behavior with emphasis on individual differences, motivation, personality, learning perception, and social behavior.

230074 International Baccalaureate (IB) Psychology II

Fee: None 2 semesters, 1 credit
Prerequisite: Admission to the IB programme and IB Psychology

In this course, students will demonstrate an understanding of themselves and of other human beings, appreciate psychology as a discipline and as relevant to the student's own life. Students will be introduced to psychological inquiry, with emphasis on scientific method, and become aware of and sensitive to people with mental illness. Key subject areas to be studied include social-cultural psychology, biological psychology, cognitive psychology, and sports psychology. This course counts as one elective credit for the advanced academic diploma offered at Central High School.

230072 Advanced Placement (AP) Psychology

Fee: \$25 2 semesters, 1 credit
Prerequisite: none

In this course, students will demonstrate an understanding of themselves and of other human beings, appreciate psychology as a discipline and as relevant to the student's own life, be introduced to psychological inquiry with emphasis on scientific method, and to be aware of and sensitive to people with mental illness. Key subject areas to be studied include physiological psychology, social psychology, developmental psychology, cognition and learning, personality, and psychological disorders and treatment. This course counts as one elective credit for the advanced academic diploma. Students will receive a 1.0 extra grade

point for successful completion of the course and the completion of the AP examination.

230073 International Baccalaureate (IB) Psychology

Fee: none 2 semesters, 1 credit
Prerequisite: Admission to the IB programme
(Offered at Central High School)

IB Psychology, students demonstrate an understanding of themselves and of other human beings, appreciate psychology as a discipline and as relevant to the student's own life, are introduced to psychological inquiry with emphasis on scientific method, and become aware of and sensitive to people with mental illness. Key subject areas to be studied include physiological psychology, social psychology, developmental psychology, cognition and learning, personality, and psychological disorders and treatment.

230095 International Baccalaureate (IB) Theory of Knowledge

Fee: none 2 semesters, 1 credit
Prerequisite: Admission to the IB programme
(Offered at Central High School)

This interdisciplinary course, a foundation of the IB curriculum model, is designed to provide coherence by exploring the nature of knowledge across all disciplines, encouraging an appreciation of other cultural perspectives. IB Theory of Knowledge will provide students with the opportunity to make connections between subjects such as knowledge and truth, language, logic, mathematics, science, social science, history, ethics, political judgment, and aesthetics. Students will use both oral and written communication extensively to express and explore their ideas and feelings about their knowledge. Students are required to write a formal paper of 1200-1600 words and to produce and present a project related to the course.

230081 Sociology

Fee: none 1 semester, ½ credit
Prerequisite: none

This course provides a foundation that will enable students to understand people and their interaction with the world in which they live. Self-awareness is a study of personality, intelligence, learning theories, and techniques. It examines problems, attitudes, heredity-

environmental interaction, and provides for study of the many aspects of adjustment including those relating to family relations, and relations with authority figures. Outside reading is required.

230032-03 Student Law: Rights and Responsibilities

Fee: none 2 semesters, 1 credit

Prerequisite: none

This course is designed to provide a practical understanding of law and the legal system that will be of use to students in their everyday lives. In addition, an attempt will be made to promote awareness of current issues and controversies relating to law and the legal system, to enhance effective citizen participation in our legal system, and to foster a greater sense of justice, tolerance, and families. This course counts as one elective credit for the advanced academic or standard diploma.

260002 Computer Applications

Fee: none 1 semester, ½ credit

Prerequisite: none

Note: This course will be used on a limited basis to fulfill graduation requirements as needed. The recommended course will be Business Technology Applications (BTA) to fulfill the computer applications state requirement for graduation. This course is designed to provide students with the basic concepts and skills regarding knowledge of computer operations. Additional components of the course are responsible use of computers, efficient use of computers to enhance productions and presentations, and use of computers to access information. Competent computer utilization fosters students' problem-solving and critical-thinking skills and enables students to become competitive workers in the twenty-first century.



High School FINE ARTS

A student may receive no more than eight credits in band and/or choral music. The principal has the responsibility to make the final decision regarding student placement.

280001 Arts Survey

Fee: none 1 semester, ½ credit

Prerequisite: none

This course comprehensively introduces students to the four arts' disciplines – dance, music, theatre, and visual arts and helps them develop an awareness of the contributions artists have made to society across the years.

280031 Marching Band/Instrumental Level I

Fee: \$25 2 semesters, 1 credit

Prerequisite: Band Director's Approval

This course will focus on the skills needed to perform in a marching band. This will include preparing for halftime shows, learning stand music, and preparing for parades. After-school rehearsals are required and performances are mandatory. Upon successful completion of the course, students may receive a fine arts credit.

280032 Beginning Band/Instrumental Level 1

Fee: none 1 semester, ½ credit

Prerequisite: none

Beginning Band is a skill course in which students learn basic techniques on a band instrument. This course is designed for students who have not been enrolled in band previously. The instrument is to be purchased by the parents.

280033 Concert Band/Instrumental Level II

Fee: \$25 2 semesters, 1 credit
Prerequisite: Audition and selection

Concert Band is an intermediate performing concert band through which students strengthen their performing skills. The concert band provides an opportunity for continuous development of basic musical skills through tone production, intonation, sight reading, and rhythms.

280035 Symphonic Band/Instrumental Level III

Fee \$25 2 semesters, 1 credit
Prerequisite: audition and selection

Symphonic Band is the advanced concert band. Symphonic Band is designed to meet the needs of those students who have demonstrated a high degree of instrumental proficiency. The purpose of this musical organization is for cultural enrichment and musical discipline.

280036 Jazz Ensemble/Instrumental Level III

Fee: \$25 1 semester, ½ credit
Prerequisite: audition and selection

Participation in the jazz ensemble is designed to provide students with experience in performing music in the popular jazz and rock idioms in all representative styles. There are opportunities for solo playing, improvisation, and performance of creative student arrangements.

280037 Orchestra/Instrumental Level IV

Fee: \$25 2 semesters, 1 credit
Prerequisite: Audition and Selection

Orchestra is a class formed to meet the needs of those students who have demonstrated a high degree of instrumental proficiency. This course not only accommodates wind and percussion instruments, but also stringed instruments such as violin, viola, cello, and double bass. The purpose of this musical organization is for cultural enrichment and musical discipline. This course may be taken for four years. Orchestra fulfills the graduation requirement for one credit of fine arts for the advanced academic or standard diploma. Students participating in orchestra have REQUIRED orchestra apparel, purchased by the student; assistance with apparel purchase is available based on a financial need basis.

280039 Marching Band Auxiliary

Fee: \$25 1 semester, ½ credit
Prerequisite: Audition and selection

Participation in the Marching Band Auxiliary Unit is designed to provide instruction for majorette dance line and flag corps members to further develop their skills and talents through organized rehearsals of fundamentals, techniques, and performance discipline. **This course does NOT fulfill the graduation requirement for one-half unit of fine arts.**

280051 Mixed Chorus/Vocal Level I

Fee: \$25 2 semesters, 1 credit
Prerequisite: none

Mixed Chorus is a beginning choir designed to develop musical skills in sight-reading, vocal technique, and to explore various styles of music from classical to contemporary music. This course fulfills the graduation requirement for one credit of fine arts for the advanced academic or standard diploma.

280053 Concert Choir/Vocal Level II

Fee: \$25 2 semesters, 1 credit
Prerequisite: Audition and selection

Concert Choir is an intermediate mixed choir for SATB singers. This course is designed to strengthen the skills of those students who have demonstrated basic knowledge of music fundamental and vocal production. These singers will compete in district and state festivals, All-state as well as a limited number of community performances. Students are required to purchase a uniform for performances.

280055 Show Choir/Vocal Level III

Fee: \$25 2 semesters, 1 credit
Prerequisite: audition and selection

Show Choir is an advanced ensemble of dedicated singers who have exceptional abilities in vocal music. This course emphasizes a combination of singing, dancing, and performing skills. This group will perform a wide variety of music from sacred to secular and classical to today's popular styles. These singers will compete in district and state festivals, All-State as well as perform for many community functions. Students are required to purchase a uniform for performances.

280057 Musical Theater/Vocal Level IV

Fee: \$25 2 semesters, 1 credit
Prerequisite: audition and selection

Musical Theater is a performance elective that provides students with opportunities to perform a musical production during the year. Singing and acting skills are developed through auditions, rehearsals, and performance. Some after-school rehearsals and extracurricular performances are required. This course may be used to fulfill the fine arts graduation requirement. Students may take musical theater in subsequent terms for additional elective credits.

**280071 Introduction to Drama**

Fee: \$25 2 semesters, 1 credit
Prerequisite: none

This course is designed for students with an interest in the dramatic arts. Students will work in all areas of theatre arts, including, but not limited to performance skills such as oral reading, improvisation, and character work, as well as theatre crafts such as masks, make-up, costumes, scenic work, and design skills.

280076 Theatre Production

Fee: \$25 2 semesters, 1 credit
Prerequisite: Introduction to Drama

Play Production is a performance based course that gives students the opportunity to experience the production process by assisting in the production of shows from a wide range of genres and styles. Students will act and/or serve on production crews for at least two shows each term. The types of shows may include children's theatre, radio theatre, Shakespearean theatre, reader's theatre, Oriental theatre, and musical theatre. This course may be taken more than once.

280077 Acting/ Theatre Performance

Fee: \$25 2 semesters, 1 credit

Prerequisite: Audition/teacher recommendation/C or better in Intro to Theatre

Theatre performance focuses on the development of acting skills. Students will prepare and perform monologues, scenes, and plays for class and competition. Students will also be required to attend, read, and analyze plays. Critical reading skills and higher order thinking skills will be developed as a result of intense actor training. Students will be required to rehearse and perform outside of the regular class time.

**280093 Art 1**

Fee: \$25 2 semesters, 1 credit
Prerequisite: none

This course will explore the fundamental concepts and approaches to drawing, painting, and design. Areas of study will include drawing with pencil, pen and ink, tempera painting, calligraphy, block printing, and ceramics.

280094 Art 2

Fee: \$25 2 semesters, 1 credit
Prerequisite: Art 1 or teacher recommendation

This course will include an in-depth study of drawing in a variety of media, multicolor block printing, pottery and ceramic sculpture, and watercolor and acrylic painting with two and three-dimensional design.

280095 Art 3

Fee: \$25 2 semesters, 1 credit

Prerequisites: Art 2 or teacher recommendation

This course is designed for students with exceptional interest and/or ability in art. This class will include an in-depth study of drawing in a variety of media, multicolor block printing, pottery, sculpture, and painting in a variety of media with two-dimensional and three-dimensional design. There will be written assignments as well as outside-of-class drawing.

280096 Art 4

Fee: \$25 2 semesters, 1 credit

Prerequisite: Art 3 or teacher recommendation

This course is for students with exceptional interest and/or ability in art. Most of the class work is done on an individual basis. Each student does an in-depth study in one area: ceramics, design, drawing, or painting. There will be written assignments as well as outside-of-class drawing.

280102 Advanced Placement (AP) Art

Fee: \$25 2 semesters, 1 credit

Prerequisite: teacher recommendation

Advanced Placement (AP) Art is a course designed for juniors or seniors who are seriously interested in the practice of art. It offers the student the opportunity to pursue an intensive study of art according to guidelines established by the College Board. These guidelines attempt to establish an environment for the study of art that would closely approximate that of a freshman-level art course. Two avenues of study are open to the student: a concentration in drawing or a more general exploration of a variety of areas in art. At the end of the year the student will submit a portfolio of his/her work to an evaluation committee to be rated for possible college credit or college advanced placement. Students will receive a 1.0 extra grade point for successful completion of the course and the completion of the AP examination.

280090 Graphic Arts/Art and Design

Fee: \$25 2 semesters, 1 credit

Prerequisites: Art 2

This course provides students with the opportunity to develop aesthetic, imaginative, and creative abilities. Students work toward an art display and/or an art journal, which exhibits extensive research of history, culture, style, media, techniques, composition, and the elements and principles of design.

280098 3-D Art/Ceramics I

Fee: \$25 2 semesters, 1 credit

Prerequisite: none

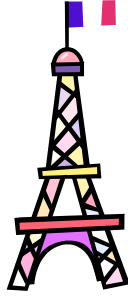
3-D Art/Ceramics is a beginning level course of study in which students will be introduced to the basic elements and principles of three-dimensional designs and be introduced to the creation of ceramic objects, and the use of clay to produce art objects. Students will explore the use of clay to create ceramic containers, tiles, thrown pottery, and clay sculptures. Students will explore glaze formulation using non-toxic raw materials.

280107 Ceramics II (Advanced Ceramics)

Fee: \$25 1 semester, ½ credit

Prerequisite: Ceramics I

Advanced Ceramics is designed for students who are motivated to develop their skills previously experienced in Ceramics 1. Students are given an opportunity to design and complete ceramic assignments not explored in an entry level course. Some students may choose to work on the wheel for part of the semester. Work is evaluated on an individual basis.



High School FOREIGN LANGUAGE

270023 French 1

Fee: none 2 semesters, 1 credit
Prerequisite: none

In French 1, students study the fundamentals of the French language, francophone countries, people, and their cultures. Students are introduced to the basic grammatical structures and to the vocabulary relevant to real-life situations while developing proficiency in listening, speaking, reading, and writing in French. Students will also explore the geography and customs of francophone countries.

270024 French 2

Fee: none 2 semesters, 1 credit
Prerequisite: French 1

French 2 is a continuation of studies begun in French 1. It introduces intermediate grammatical structures, a broadened vocabulary, and expanded cultural concepts.

270025 French 3

Fee: none 2 semesters, 1 credit
Prerequisite: French 2

French 3 offers the serious student a review and reinforcement of the skills and materials learned in French 1 and 2 as well as the introduction of advanced grammatical concepts and more complex vocabulary. Readings from French history and literature may be included.

270026 French 4

Fee: none 2 semesters, 1 credit
Prerequisite: French 3

French 4 places emphasis on conversation and reading comprehension. The finer points of grammar are stressed. French 4 is based upon the assumption that the student has mastered all basic grammar concepts. The course offers the student strengthening and reinforcement in the speaking-listening skills and in reading comprehension.

270033 French 5

Fee: none 2 semesters, 1 credit
Prerequisite: French 4

French 5 offers further development and refinement of previously learned skills. Students will read a variety of texts, which will provide a basis for discussion of cultural themes.

270027 Advanced Placement (AP) French

Fee: \$25 2 semesters, 1 credit
Prerequisite: French 4 and teacher recommendation

Advanced Placement (AP) French will involve the reading and analysis of a variety of texts including French literature (short stories, plays, and poems) and informative articles (journalistic and textbook style). Through this intensive reading, students will have the opportunity to review grammar and communication skills. All of the language skills of listening, speaking, reading, and writing will be employed. Students will receive a 1.0 extra grade point for successful completion of the course and the completion of the AP examination.

270043 German 1

Fee: none 2 semesters, 1 credit
Prerequisite: none

German 1 is an introduction to the basics of the German language. Students will develop competence in the four skills (listening, reading, speaking, and writing) so they will be able to communicate successfully in German. Students will be introduced to contemporary life and culture in the German-speaking countries.

270044 German 2

Fee: none 2 semesters, 1 credit
Prerequisite: German 1

German 2 expands the communicative skills already acquired. Students will be able to talk about a variety of everyday occurrences and events. Students will learn to interact with others about various aspects of life: using various means of transportation, exchanging currency, and shopping in a variety of stores and markets. Students will increase cultural understanding by writing letters, describing German houses and apartments, major events, and festivals in small towns and large cities in Germany. Students will expand reading skills through specially chosen readings. These selections are shortened and simplified texts adapted from the works of well-known German authors.

270045 German 3

Fee: none 2 semesters, 1 credit
Prerequisite: German 2

German 3 builds on the skills developed in German 1 and 2. Extensive practice in conversation and grammar review is included. German 3 students will be introduced to German history, art, and literature. Students will read intermediate-level German novels and view German films. Students will expand their knowledge of German culture through reading and discussion. Class will be conducted almost exclusively in German with the expectation that the student will develop fluency in the language.

270046 German 4

Fee: none 2 semesters, 1 credit
Prerequisite: German 3

German 4 emphasizes conversation and reading comprehension. The finer points of grammar can be mastered as they occur within the reading material. German 4 is based upon the assumption that the student has mastered all basic grammar concepts. The course offers the student strengthening and reinforcement in the speaking-listening skills and in reading comprehension (not translation) skills.

270153 Spanish 1

Fee: none 2 semesters, 1 credit
Prerequisite: none

In Spanish 1, students are introduced to the basic grammatical structures and to the vocabulary and expressions relevant to real-life situations while developing proficiency in listening, reading, speaking, and writing. Throughout the course, explorations of the geography of Spanish-speaking countries, the people, and the customs serve to broaden students' views of the world and their places in it.

270154 Spanish 2

Fee: none 2 semesters, 1 credit
Prerequisite: Spanish 1

Spanish 2 offers a further study of the Spanish language, its structure, and vocabulary. It continues to acquaint the student with the culture and way of life of Hispanic people

270155 Spanish 3

Fee: none 2 semesters, 1 credit
Prerequisite: Spanish 2

Spanish 3 concludes the study of the basic concepts of Spanish grammar and offers an in-depth study of the finer grammatical structures of the language. Stress is placed on using the language and improving conversational skills. Spanish literature is introduced.

270156 Spanish 4

Fee: none 2 semesters, 1 credit
Prerequisite: Spanish 3

Spanish 4 emphasizes conversation and reading comprehension. The finer points of grammar can be mastered as they occur within the reading material. Spanish 4 is based upon the assumption that the student has mastered all basic grammar concepts. The course offers the student strengthening and reinforcement in the speaking-listening skills and in reading comprehension (not translation) skills.

**270160 International Baccalaureate (IB)
Spanish 4**

Fee: none 2 semesters, 1 credit
Prerequisite: Spanish 3
(Offered at Central High School)

IB Spanish 4 emphasizes conversation and reading comprehension. The finer points of grammar can be mastered as they occur within the reading material. Spanish 4 is based upon the assumption that the student has mastered all basic grammar concepts. The course offers the student strengthening and reinforcement in the speaking-listening skills and in reading comprehension (not translation) skills. To earn IB credit, the student must be admitted to the IB Programme and must take the IB examination.

270164 Spanish 5

Fee: none 2 semesters, 1 credit
Prerequisite: Spanish 4

Spanish 5 offers further development and refinement of previously learned skills. Students will read a variety of literary texts, which will provide a basis for discussion of cultural themes.

**270161 International Baccalaureate (IB)
Spanish 5**

Fee: none 2 semesters, 1 credit
Prerequisite: Spanish 4
(Offered at Central High School)

IB Spanish 5 offers further development and refinement of previously learned skills. Students will read a variety of literary texts, which will provide a basis for discussion of cultural themes. To earn IB credit, the student must be admitted to the IB programme and must take the IB examination.

270157 Advanced Placement (AP) Spanish

Fee: \$25 2 semesters, 1 credit
Prerequisite: Spanish 4 and teacher recommendation

AP Spanish involves the reading and analysis of a variety of texts including Spanish literature (short stories, plays, and poems) and informative articles (journalistic and textbook style). Through this intensive reading, students will have the opportunity to review grammar and communication skills. All of the language skills of listening, speaking, reading, and writing will be employed. Students will receive a 1.0 extra grade point for successful completion of the

course and the completion of the AP examination.



**High School Physical Education
and Athletics**

240002 Physical Education (LIFE)

Fee: none 2 semesters, 1 credit
Prerequisites: none

Lifelong Individualized Fitness Education (LIFE) is the foundation course for all high school students. The goal of the LIFE course is for students to make physical activity a part of their lives beyond high school. The focus of the required high school physical education course is health-enhancing activity. LIFE provides a blueprint for a lifetime of health living. Students learn to apply various aspects of fitness and to assess their own fitness levels. Students are required to develop and maintain an individual level of fitness that forms the foundation for a healthy future. This is a required course for graduation.

240003 Physical Education Elective

Fee: none 2 semesters, 1 credit
Prerequisite: LIFE PE

This course is designed for those students who have completed the LIFE physical education and wish to continue to take a physical education class. Team activities offered in this class are football, basketball, soccer, tennis, softball, and other team oriented activities. Students will be offered opportunities to compete in intramural activities in the various sports.

240003-01 Aerobic/Fitness Conditioning

Fee: \$25 1 semester, ½ credit

Prerequisite: none

Aerobic/Fitness Conditioning is an elective physical education course designed to enhance physical fitness by promoting cardiovascular conditioning, flexibility, and overall healthy lifestyles. Students participate in aerobic fitness training exercises and activities to develop stamina, strength, and good nutritional habits necessary for a healthy lifestyle. Students may take this course in subsequent terms for additional elective credits. This cannot be used to fulfill the 1 credit of physical education required for graduation.

240003-02 Boys' Strength Training and Conditioning

Fee: \$25 1 semester, ½ credit

Prerequisite: none

This course is designed to provide opportunities to increase strength and cardiovascular endurance through controlled weightlifting and limited running drills. This course will use a variety of health-enhancing physical activities as the vehicle for reinforcing and applying fitness components and principles. This cannot be used to fulfill the 1 credit of physical education required for graduation.

240003-03 Girls' Strength Training and Conditioning

Fee: \$25 1 semester, ½ credit

Prerequisite: none

This course is designed to provide opportunities to increase strength and cardiovascular endurance through controlled weightlifting and aerobic exercise. This course will use a variety of health-enhancing physical activities as the vehicle for reinforcing and applying fitness components and principles. This cannot be used to fulfill the 1 credit of physical education required for graduation.

250002 Health

Fee: none 1 semester, ½ credit

Prerequisite: none

Health is a required course for graduation. Students will study material enabling them to recognize the importance, nature, and extent of the following: personal health and fitness, mental health, nutrition, substance abuse, safety

and emergency care, family and social health, and community health. Realizing that knowledge by itself does not change health behaviors, this health education curriculum provides students with opportunities to gain health knowledge, to practice effective health skills and behaviors, and to develop attitudes that promote healthful living. **This course is required for the Advanced Academic, Standard, and Alabama Occupational Diplomas.**

Athletics

Fee: \$25 2 semesters, 1 credit

Prerequisites: Try-out, selection, and coach approval

240003-04	Swimming
240003-05	Wrestling
240003-06	Varsity Cheerleading
240003-07	JV Cheerleading
240003-08	Football
240003-09	JV Football
240003-10	Volleyball
240003-11	Junior Varsity Volleyball
240003-12	Girls Track and Field
240003-13	Boys Track and Field –fall
240003-14	Girls Varsity Basketball
240003-15	Girls JV Basketball
240003-16	Boys Varsity Basketball
240003-17	Boys JV Basketball
240003-18	Varsity Fast pitch Softball
240003-19	JV Fast pitch Softball
240003-20	Varsity Baseball
240003-21	JV Baseball
240003-22	Girls Varsity Soccer
240003-23	Girls JV Soccer
240003-24	Boys Varsity Soccer
240003-25	Boys Junior Varsity Soccer
240003-26	Girls Golf
240003-27	Boys Golf
240003-28	Girls Tennis
240003-29	Boys Tennis
240003-30	Strength Training Football -

Athletics courses are a series of elective physical education programs designed to develop greater proficiency and mastery in specific team sports. Courses teach advanced skills and knowledge of rules used in interscholastic and recreational programs. Placement in an athletic sport is made only after try-outs and selection procedures are completed. Approval from the appropriate coach is required for registration in each sport. All athletic courses are offered for one credit

during one term. For some sports, students may be encouraged to enroll in weight training for the opposite term to continue or enhance the physical conditioning for the sport. Coaches advise individual athletes on the best course selections for optimum performance.

Career/Technical Education Courses

Career/Technical Education



The Career/Technical Education curriculum provides content that is student centered, allowing career pathways that include academic and career/technical education courses specifically directed to students' key interests and required skills. Students are provided access to a flexible system of school- and work-based learning planned collaboratively by students, parents, educators, and employers. Each program utilizes an advisory committee, a source for professional input regarding equipment needs, curriculum emphasis, technical updates, and problem solving. This is a necessary link to business and industry.

Career technical student organizations are integral, co-curricular components of each career and technical course. These organizations serve as a means to enhance classroom instruction while helping students develop leadership abilities, expand workplace-readiness skills, and broaden opportunities for personal and professional growth. Upon graduation, students are prepared for post-secondary education, apprenticeship programs, and employment as well as individual, family, and community success.

Three courses in a coherent sequence are required for a Career/Technical Endorsement.

210015-01 Career Algebraic Connections *Pending SDE waiver approval required to pilot*

Career Algebraic Connections is a course that provides students with a bridge to mathematical empowerment needed to make financial and economic decisions while applying mathematic concepts into a career setting. Career mathematics extends the scope of content for integrating topics from algebra, geometry, measurement, and probability and statistics with an emphasis on career and technical applications. This course provides opportunities to incorporate the use of technology through its emphasis on using functions to make real-life predictions and to calculate outcomes.

Architecture and Construction

The Architecture and Construction pathway includes Construction, Drafting Design, Electrical Technology, Masonry, and Welding Technology-- programs reinforcing academic and technical skills that enhance college and career readiness. Programs emphasize critical thinking skills and require significant mathematical computation and application. Daily attendance is a critical component for student success. Hands-on work experiences and SkillsUSA leadership activities provide many opportunities to enhance classroom instruction and career development.



Construction

410006 Construction Site Preparation and Foundation

Fee: \$25 1 semester, 1 credit
Prerequisite: none

This course facilitates student understanding of the first phases of construction. Students become familiar with types of structures and their uses. Topics include career opportunities,

safety, planning, location, layout, concrete and masonry and foundations of various structures.

410007 Construction Framing

Fee: \$25 1 semester, 1 credit

Prerequisite: Construction Site Preparation and Foundation

This course facilitates student understanding of the framing phase of a structure, including framing components. Topics include career opportunities, safety, lumber, material estimation, floor systems, wall framing, ceiling framing, stair construction, roof framing, and roof materials in various structures. This course encourages critical thinking, use of scientific method, integration of technology, development of student leadership skills, and application of knowledge and skills related to practical questions and problems. Safety concepts are integrated into instruction to the maximum extent possible.



410008 Construction Finishing and Interior Systems

Fee: \$25 1 semester, 1 credit

Prerequisite: Construction Framing

This course facilitates an understanding of the exterior and interior finishing of a structure. Topics include career opportunities, safety, windows, doors, plumbing, electrical wiring, insulation, wall coverings, storage, and finishes. This course encourages critical thinking, use of scientific method, integration of technology, development of student leadership skills, and application of knowledge and skills related to practical questions and problems. Safety concepts are integrated into instruction to the maximum extent possible.

Drafting Design Technology

Drafting Design uses technical drawing and computer skills to create drawings, plans, and computer models used in building, manufacturing design and construction fields. Computer-Aided Design and Drafting (CADD) skills are critical in engineering, construction,

architectural and interior design, fashion design, manufacturing and developmental designs of parts and products, including automotive, aerospace, marine vessel/equipment, and multimedia design, photographic rendering and animation. Strong mathematical skills, including measures and fractions, as well as special/conceptual design, as well as critical thinking skills are recommended. Students participate in SkillsUSA as an integral part of the instructional program. College credit options are available with a "B" or better average in three or more courses in any one pathway.

410005 Introduction to Drafting Design

Fee: \$25 1 semester, 1 credit

Prerequisite: "C" or above in Algebra I and Geometry is recommended

This foundational program is open to students, grades 10-12, and provides the framework for preparing students interested in pursuing a profession in engineering, architecture, design, and construction related fields in the basics of Computer-Aided drafting and design. Emphasis is placed on student safety, tools, procedures, visualization, sketching orthographic projection, geometric construction, and dimensioning practices. Computer-aided drafting (CAD) functions and techniques using CAD software applications are introduced.

430010 Intermediate Drafting

Fee: \$25 1 semester, 1 credit

Prerequisites: *Introduction to Drafting Design*

Intermediate Drafting students in grades 10 through 12 will develop more advanced drafting and design techniques in the areas of auxiliary views, descriptive geometry, pattern development, machine drafting, architectural, and civil drafting.

430011 Advanced Drafting Design

Fee: \$25 1 semester, 1 credit

Prerequisite: *Intermediate Drafting Design*

This course is for students who are interested in engineering and related mechanical drafting areas that provide a more in-depth study of mechanical design. Emphasis is placed on detailed parts drawings, bill of materials, and assembly drawings. Students are introduced to basic Geometric Dimensioning and Tolerancing (GD&T) applications. Through intersections and development, students acquire basic sheet

metal forming knowledge. Using this knowledge, students lay set out and form models of geometric figures. Career readiness projects allow students opportunities to research industry standards and practices.

430013 Introduction to Architectural Design

Fee: \$25 1 semester, 1 credit
Prerequisite: *Advanced Drafting Design*

Students in grades 10 through 12 will be introduced to the basic terminology, concepts, and principles of the architectural Design field. Emphasis is placed on floor plan lay out, electrical layout, foundations, typical elevations, and section drawings. Upon successful completion of this course, students are able to draw a basic residential architectural construction drawing.

430014 Intermediate Architectural Design

Fee: \$25 1 semester, 1 credit
Prerequisite: Intro to Architectural Drafting Design

This course is designed to provide students with instruction regarding more advanced and detailed architectural plans. Topics include multilevel floor plan layout, building specifications, and detailing, plumbing, and electrical plans with site plan layout. Students are encouraged to research and develop a career readiness project with instructor's approval. Upon successful completion of this course, students are able to organize, layout, and draw more advanced level residential architectural plan.

430015 Advanced Architectural Design

Fee: \$25 1 semester, 1 credit
Prerequisite: Intermediate Architectural Drafting Design

This is a one-credit course for students who are interested in architecture and related architectural drafting areas that provide more in-depth study of architecture. Emphasis is placed on detailed residential drawings, bill of materials, and assembly drawing. Career readiness projects allow students opportunities to research industry standards and practices.

Electrical Technology

430051 Basic Wiring

Fee: \$25 1 semester, 1 credit
Prerequisite: Sophomore level or higher
"C" or better in Alg.1/Alg.I-A and B are highly recommended

This course addresses a broad basic understanding of electrical theory and wiring. The course emphasizes safety while addressing topics such as shop rules, job opportunities, safety, tools meters, measuring devices, DC/AC theory, and the national and local codes. Upon successful completion of this course, students are to understand circuitry and perform basic wiring patterns.

410009 Residential Wiring

Fee: \$25 1 semester, 1 credit
Prerequisite: Basic Wiring
Successful completion of Basic Wiring with a "C" or better

This course addresses various aspects of residential wiring. Students are provided with opportunities to practice lab procedures in a simulated residential setting. The course emphasizes safety, correct wiring, and fundamentals and incorporates the National Electrical Code (NEC) requirements. Upon completion of the course, students are able to complete the wiring of a house with limited supervision.

430053 Commercial Wiring

Fee: \$25 1 semester, 1 credit
Prerequisite: Residential Wiring

This course provides students with knowledge and skills for wiring a commercial building. Students have the opportunity to learn ways to bend and install different types of conduit. Topics addressed in this course include: electrical devices, over-current protection, grounding, raceways, boxes and fitting, and blueprint symbols and components. Emphasis is placed on safety and the incorporation of the National Code (NEC) requirements and correct wiring fundamentals. Upon successful completion of this course, students are able to assist in wiring a commercial building with supervision.

430052 Industrial Wiring

Fee: \$25 1 semester, 1 credit
Prerequisite: Commercial Wiring

This course provides students with information regarding the basic types of wiring for a factory. Students have the opportunity to learn to bend and install of conduit used on industrial sites. Emphasis is placed on safety and the incorporation of the National Electrical Code (NEC) requirements. Upon successful completion of this course, students are able to perform wiring installation in an industrial setting with supervision.

430054 Motor Controls

Fee: \$25 1 semester, 1 credit
Prerequisite: Industrial Wiring

This course provides students with information regarding alternating, direct current motors and industrial motor control. Upon completion of this course, students are able to perform connections and troubleshooting techniques.

430056 Control Electromechanical

Fee: \$25 1 semester, 1 credit
Prerequisite: Successful completion of Motor Controls with a "C" or better average.

This course is designed to provide students with the fundamental knowledge and skills for this area of the electrical industry. Emphasis is placed on job safety, electronic control systems, programmable logic controller, and robotics. Upon successful completion of this course, students perform basic tasks related to the electrical industry.

430050 Electrical Technology

Fee: \$25 1 semester, 1 credit
Prerequisite: Electromechanical Control

This is an introduction course to the electrical technology program. The course emphasizes safety while addressing basic electrical theory and skills. Leadership activities, co-curricular opportunities, and employability skills are emphasized in appropriate career and technical education organization affiliation.



Masonry

Masonry is a critical structural and artistic component used in residential and commercial construction. Masonry requires considerable application of mathematical computation; therefore, students are encouraged to have successfully completed Algebra 1 or Algebra IA and IB prior to taking any of the masonry classes. Daily attendance and participation is a critical component for overall success in the program. Participation in *SkillsUSA*, the Career Technical Student Organization for Masonry, is encouraged and emphasizes leadership activities, co-curricular opportunities, and opportunities to enhance employability skills.

410010 Introduction to Masonry

Fee: \$25 1 semester, 1 credit
Prerequisite: none

This course is designed to provide students with the basic knowledge and skills of masonry. Emphasis is placed on safety, tools of trade, measuring, blueprint reading and layout, and masonry wall construction. Upon successful completion of this course, students demonstrate basic block and brick construction techniques

430040 Block Wall Construction

Fee: \$25 1 semester, 1 credit
Prerequisite: Successful completion of *Introduction to Masonry*

This course is designed to provide students with the fundamental knowledge and skills for constructing a block wall. Emphasis is placed on job safety, interpretation of drawings and specifications, footing and site preparation, estimation of materials and supplies needed for a block wall construction, and jointing and pointing. Upon successful completion of this course, students are able to perform a variety of masonry techniques.

430041 Residential Masonry I

Fee: \$25 1 semester, 1 credit
Prerequisite: Successful completion of *Block Wall Construction*

This course is designed to provide students with the fundamental knowledge and skills for this area of the construction industry. Emphasis is placed on job safety, interpretation of residential masonry plans and drawings. Students

construct foundations and footings, walls and openings, prepare elevated work stations, and identify a variety of types of insulations. Upon successful completion of this course, students perform basic tasks related to the masonry industry.

430042 Residential Masonry II

Fee: \$25 1 semester, 1 credit

Prerequisite: Successful Completion of Introduction to Masonry & Block Wall Construction

This course is designed to provide students with advanced knowledge and skills for this area of the construction industry. Emphasis is placed on job safety, identification of building codes, foundations, brick veneer walls, bonding, and estimate of materials and supplies needed for a project. Upon successful completion of this course, students perform basic tasks related to the masonry industry.



Welding Technology

430070 Introduction to Welding

Fee: \$25 1 semester, 1 credit

Prerequisite: none

This course provides students with a fundamental understanding of blueprint reading, weld symbols, and weld joints, rules for safety, and identification and use of tools and shop equipment. Students acquire knowledge for safe operation of oxy-fuel cutting and shielded metal arc welding processes. Upon successful completion of this course, students are able to interpret lines, views, and dimensions of weld joint configurations and weld symbols; identify oxy-fuel cutting equipment and components; determine proper setup equipment for application; identify safety hazards, and welding equipment related to shielded metal arc welding; and make quality welds with E-010 and E-7018

electrodes in the flat, horizontal, vertical, and overhead positions. This entry-level course may be taken as one of the optional technique courses with credit applied to the Industrial Maintenance Technology program.

430071 Applied Welding I with Plasma Arc Cutting

Fee: \$25 1 semester, 1 credit

Prerequisite: Successful completion of Introduction to Welding

This course provides students with instruction regarding safety and terminology in the shielded metal arc welding (SMAW) process, equipment identification, setup and operation of plasma arc equipment, and reading and interpreting detailed drawings. Emphasis is placed on striking and controlling the arc and proper fitting of weld joints. Upon successful completion of this course, students are able to perform fillet welds in the 1-F and 2-F positions with E-6010 and E-7018 electrodes in accordance with the American Welding Society (AWS) D1.1 codes. Students identify safety hazards, gases, and equipment, and practice the operation of manual plasma arc cutting equipment while observing safety precautions.

430072 Applied Welding II with Carbon Arc Cutting

Fee: \$25 1 semester, 1 credit

Prerequisite: Applied Welding I with Plasma Arc Cutting, Successful completion of *Introduction to Welding*.

This course introduces students to the proper setup and operation of shielded metal arc welding (SMAW) equipment in the vertical, 3-F and overhead, 4-F positions. Emphasis is placed on striking and controlling the arc. Proper setup and operation of manual air carbon and gouging and cutting operations on plain carbon steel are addressed. Upon successful completion of this course, students are able to perform fillet welds in the vertical, 3-F and overhead, (4-F) positions with E-6010 and E-7018 electrodes in accordance with the AWS D1.1 code and produce industry quality cuts with carbon arc cutting equipment.



430075 Gas Metal Arc Welding I

Fee: \$25 1 semester, 1 credit

Prerequisite: Applied Welding I with Plasma Arc Cutting.

This course provides instruction on the various transfer methods of Gas Metal Arc Welding (GMAW) fillet welds. Topics include safety, equipment setup, joint design and preparation, and gas flow rates. Upon successful completion of this course, students are able to perform fillet welds in the flat fillet, 1-F, horizontal fillet, 2-F, vertical up-and-down fillet, 3-F, and overhead fillet weld, 4-F, positions.

430076 Flux Core Arc Welding

Fee: \$25 1 semester, 1 credit

Prerequisite: Advanced Shielded Metal Arc Welding (SMAW), Groove Welds, and Welding Inspection and Testing Level 2

This course introduces students to the flux core arc welding (FCAW) process. Emphasis is placed on safe operating practices and on handling and storage of compressed gasses. Students demonstrate manual welding skills on carbon steel using the flux core arc welding process in the flat fillet (1-F) horizontal fillet, (2-F), vertical fillet (3-F) and overhead fillet weld (9-F) positions. Upon successful completion of this course, students are able to make quality welds in the 1-F, 2-F, 3-F, and 4-F positions. Through an articulation agreement with community colleges, students may be eligible for college credit upon successful completion of this course.

430077 Gas Tungsten Arc Welding I

Fee: \$25 1 semester, 1 credit

Prerequisite: Successful completion to Introduction to Welding, Applied Welding I with Plasma Arc Cutting, Applied Welding II with Carbon Arc Cutting, Gas Metal Arc Welding

This course provides students with instruction and hands-on activities utilizing the Gas Tungsten Arc Welding (GTAW) process for producing fillet welds in the flat, 1-F, and horizontal, 2-F, positions using both ferrous and non-ferrous metals according to AWS D1.1

code. Topics include safety of operation and setup of GTAW equipment and the selection of tungsten, polarity, shielding gas, and filler metals. Upon successful completion of this course, students are able to produce fillet welds on ferrous and non-ferrous metal using the GTAW process according to AWS code D1.1.

430078 Gas Tungsten Arc Welding II

Fee: \$25 1 semester, 1 credit

Prerequisite: Gas Tungsten Arc Welding I

This course provides students with instruction and hands-on activities utilizing the Gas Tungsten Arc Welding (GTAW) process for producing fillet welds in the vertical, 3-F, and overhead, 4-F, positions, using both ferrous and non-ferrous metals according to AWS D1.1 code. Topics include safe operation of GTAW equipment; equipment setup; and selection of tungsten, shielding gas, and filler metals. Upon successful completion of this course, students are able to produce fillet welds on ferrous and non-ferrous metals using the GTAW process according to AWS code D1.1

Arts, Audio, Video Technology & Communications Career Cluster



Advertising & Design and Television Production are communication median that incorporate visual art, creativity, writing and editing skills for a desired effect. Advertising & Design is the creative use of print & digital media to solicit desired human responses, whereas television production is the median by which live or taped programming is created and broadcasted. SkillsUSA, the student organization for this cluster area, enhances classroom instruction, develops leadership skills, and provides opportunities for professional growth & services.

Animation

440041 Introduction to Animation and Visual Communication

Fee: \$25 1 semester, 1 credit
Prerequisite: BTA or equivalent/
teacher recommendation

This course introduces students to the animation industry. Emphasis is placed on safety in a laboratory and studio environment. Students apply the principles of animation to visually communicate thoughts, feelings, and ideas. Topics of study include animation history, criticism, production, and materials and media utilized in the field. Successful completion of this course prepares students for subsequent courses in animation.

440042 Animation Layout

Fee: \$25 1 semester, 1 credit
Prerequisite: Introduction to Animation and Visual Communication;
Teacher Recommendation

This course provides students with the opportunity to explore illustration as related to settings, locations, and environments for animated film. Students utilize design principles to create believable environments. Topics include life, landscape, and architectural drawings. Successful completion of this course prepares students for the Storyboarding course and for entry-level careers in Animation Layout. Introduction to Animation and Visual Communication or a satisfactory portfolio review by the instructor is the prerequisite for this course.

440043 Animation Character Development and Design

Fee: \$25 1 semester, 1 credit
Prerequisite: Animation Layout;
Teacher Recommendation

This course provides students with the opportunity to develop and design animated characters. Emphasis is placed on anatomy, film archetypes and stereotypes, figure drawing, and costume design. Skills gained in this course prepare students for the Character Animation course, postsecondary education, and entry-level careers in character design. Introduction to Animation and Visual Communication,

Animation Layout, or a satisfactory portfolio review by the instructor are prerequisites for this course.

440044 Storyboarding

Fee: \$25 1 semester, 1 credit
Prerequisite: Animation Character Development and Design;
Teacher Recommendation

This course provides students with the opportunity to visually illustrate and communicate ideas, themes, locations, and emotions. Storyboards are created through a variety of electronic, traditional and digital media. Successful completion of this course prepares students for the Animated Filmmaking course and entry-level careers in storyboarding. Introduction to Animation and Visual Communication, Animation Layout, or a satisfactory portfolio review by the instructor are prerequisites for this course.

440045 Character Animation

Fee: \$25 1 semester, 1 credit
Prerequisite: Storyboarding;
Teacher Recommendation

This course provides students with the opportunity to utilize the principles of animation to create animated stories with characters appearing to be self-motivated and possessing individual thought processes. Instruction allows students to focus on figure drawing, pantomime and acting, and advanced mechanics in animation. Skills gained in this course prepare students for the Animated Filmmaking course, postsecondary education, and entry-level positions in animation. Introduction to Animation and Visual Communication, Animation Layout, Storyboarding, or a satisfactory portfolio review by the instructor are prerequisites for this course.

440046 Animated Filmmaking

Fee: \$25 1 semester, 1 credit
Prerequisite: Character Animation;
Teacher Recommendation

This course provides students with the opportunity to produce entertaining animated films utilizing a variety of techniques. Topics include visual development, storyboarding preproduction, animation production, and animation technology. Successful completion of

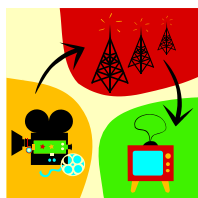
this course prepares students for Advanced Animation Portfolio, postsecondary education, and entry-level careers in Animated Filmmaking. Introduction to Animation and Visual Communication, Animation Layout, Storyboarding, Character Animation, or a satisfactory portfolio review by the instructor are prerequisites for this course.

440047 Advanced Animation Portfolio

Fee: \$25 1 semester, 1 credit
Prerequisite: Animated Filmmaking;
Teacher Recommendation

This course provides students with the opportunity to produce portfolio-quality animation utilizing a variety of techniques. Students critique, judge, and revise previous animation that will be assembled into a final portfolio. Instruction allows students to focus on safety, studio projects, portfolio organization, and employment skills. Students are encouraged to participate in a variety of local, state, and national contests as well as to present their projects to industry professional and postsecondary educators. Successful completion of this course prepares students for postsecondary education and entry-level positions in animation or related fields. Introduction to Animation and Visual Communication, Animation Layout, Storyboarding, Character Animation, Animated Filmmaking or a satisfactory portfolio review by the instructor are prerequisites for this course.

Television Production



440017 Introduction to Television Production

Fee: \$25 1 semester, 1 credit
Prerequisite: none

Students will learn the basics of broadcast production. Writing, editing, and photography skills will be taught. This course also exposes students to different types of video productions

including the following: network and cable programs, reality television, music videos, and movies. Upon successful completion of this course, students are able to create weekly video projects, including commercials, news stories, and mini-documentaries.

440018 Television Production – Writing/Producing/Performance

Fee: \$25 1 semester, 1 credit
Prerequisite: Introduction to Television Production and application
Transportation and liability insurance are required for off-campus class assignments and video work.

This course is designed for students who already know the basics of television production. In a real-world television production environment, these students will produce a regularly scheduled television program for their school and/or community with students in the Television Production – Studio Operations and Television Production - Photography / Editing courses.

440019 Television Production – Studio Operations

Fee: \$25 1 semester, 1 credit
Prerequisite: Introduction to Television Production and application
Production and application
Transportation and liability insurance are required for off-campus class assignments and video work.

In a real-world television production environment, these students will produce a regularly scheduled television program for their school and/or community with students in the Television Production Writing / Producing / Performance and Television Production-Photography / Editing courses. Transportation and liability insurance are required for off-campus class assignments and video work.

440020 Television Production – Photography/Editing

Fee: \$25 1 semester, 1 credit

Prerequisite: Introduction to Television

Production and application

Production and application

Transportation and liability insurance are
required for off-campus class assignments and
video work.

In a real-world television production environment, these students will produce a regularly scheduled television program for their school and/or community with students in the Television Production–Writing/Producing/Performance and Television Production–Photography/Editing courses.

440021 Advanced Television Production

Fee: \$25 1 semester, 1 credit

Prerequisites: Two of the Television Production
courses.

(Television Production–
Writing/Producing/Performance, Television
Production – Studio Operations, and/or
Television Production – Photography/Editing)
Production and application

Transportation and liability insurance are
required for off-campus class assignments and
video work.

Advanced Television Production will give the student the opportunity to create and market professional video productions. Students will work independently or in groups to create long-term projects.

Business Management and Administration Cluster

Business Information Technology Pathway

Business, Management, and Administration students will follow the *Business Information Technology* pathway. The foundation course is Business Technology Applications. This cluster prepares students with the fundamental knowledge and skills for careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations. In addition, students learn ways in which technology, globalization, and regulatory issues affect the day-to-day operation

of businesses. To become a Business Technology Information Program Completer, a student must successfully complete two pathway core credits and one pathway elective credit.

Future Business Leaders of America-Phi Beta Lambda (FBLA-PBL) and the Association for Marketing Students (DECA) are co-curricular components of Business Information Technology. Both student organizations enhance classroom instruction, develop leadership skills, and provide opportunities for professional growth and service.

450006 Business Technology Applications (BTA)

Fee: none 2 semesters, 1 credit

Prerequisites: none

This required course is designed to assist students in developing technological proficiencies in word processing spreadsheets, databases: presentations, communications, internet use, ethics, and careers using technology applications. BTA is the foundation course for all courses offered in the Business Management and Administration Cluster. Simulations and projects promoting teamwork, leadership, and workplace skills offer further opportunities for applications of knowledge and skills. This course satisfies the online learning experience required for the Alabama High School Diploma.

450031 Advanced Business Technology Applications

Fee: \$25 2 semesters, 1 credit

Prerequisites: Business Technology
Applications or Equivalent

This course provides students with project-based applications of concepts learned in Business Technology Applications. Personal computing and business skills are integrated throughout the course as students use a variety of software applications to produce and prepare documents for publication and learn how to select appropriate software for generating information. A major emphasis is placed on guiding students through real-world experiences to aid in the school-to-career transition. This course will count as one (1) core credit in the Business Information Pathway.

410016 Multimedia Design

Fee: \$25 2 semesters, 1 credit

Prerequisite: Business Technology
Applications or equivalent

This course is designed to provide students with hands-on skills involving graphic design, web publishing, and digital video production. Students use various hardware peripherals and software for completing projects. This course will count as one core credit in the Business Information Technology Career Pathway.

410017 Multimedia Publications

Fee: \$25 2 semesters, 1 credit

Prerequisite: Business Technology
Applications or equivalent

This course is designed to provide students with the ability to utilize digital photography and multimedia digital imaging software, to produce interactive media projects, and to develop publication layouts. Students use various hardware peripherals as well as the internet for integrating skills to create a variety of publications. This course will count as one core credit in the Business Information Technology Pathway.

400016 Workforce Essentials

Fee: \$25 2 semesters, 1 credit

Prerequisite: None

This course provides students with higher-level academic and occupational skills that are transferable across jobs and occupational areas. Emphasis is placed on academic foundations for careers; applied technology; career development and employment; entrepreneurship and business economics; social and ethical responsibility, leadership and teamwork; safety and health; and technical knowledge and skills. Students build on prior knowledge, strengths, interests, and needs that enhance preparation for future employment and continuing education and training. This course will count as one elective credit in the Business Information Technology Pathway.

400022 Personal Finance

Fee: \$25 1 semester, ½ credit

Prerequisite: Business Technology
Applications (BTA) or equivalent

This course introduces students to the management of personal and family resources to achieve personal goals and financial literacy. Course content provides opportunities for students to explore consumer behavior, laws and legislation, consumer protection, consumer rights and responsibilities, consumer decision making, advertising and promotional techniques, individual and family money management, banking services, use of credit, income tax, technology and careers in providing financial services to individuals and families. This course will count as one elective credit in the Business Information Technology Pathway.

400031 Cooperative Education Seminar

Fee: \$25 1 semester, 1 credit

Prerequisite: application and selection

This course is a required component of the Cooperative Education work-based experience. Student enrolled in Cooperative Education programs are required to participate in the seminar one class period each week. Students must work 270 clock hours in a work-based learning environment to earn one credit. This course will count as one elective credit for any Career/Technical Pathway.

450011 Law in Society

Fee: \$25 1 semester, ½ credit

Prerequisites: Business Technology
Applications (BTA) or equivalent

This course is designed to acquaint students with the basic legal principles common to business and personal activities. This course is an overview of criminal, civil, contract, and consumer law. Topics include evaluating contracts, purchasing appropriate insurance, interpreting state and federal criminal law, and representing other business as employee or contractor. This course will count as one elective credit in the Business Information Technology Pathway.



Health Science

The purpose of the Health Science Programs is to introduce students to the healthcare system, assist students to make realistic career decisions, develop students' leadership skills and prepare students for acceptance in a post-secondary healthcare education program and/or employment in healthcare jobs.

It is critical that students prepare for careers in health science to meet the increasing and changing demands of various populations and of the rapidly developing biomedical industry.

Students in the health science program must achieve academic goals and meet the expectations of business and industry. The health science program provides the flexibility for meeting the needs of all students. This cluster encompasses integrated academics and technology and includes a variety of course selections with materials relevant to the twenty-first century. The health science program emphasizes the importance of project, service, and work-based learning experiences. Development of leadership enhanced through student participation in Health Occupations Students of America (HOSA). Health science is competency-based, utilizing learner-centered instruction that provides opportunities for students to learn skills necessary for a career path in health science.

Because of legalities, liabilities, responsibilities of professional healthcare workers, and patient rights, students shall not be assigned to the clinical experience segment of the program until they are considered competent in basic skills in their chosen occupational area as determined by the Health Science instructor. Students participating in clinical experiences will be required to pay an additional fee for liability insurance coverage. Students in advanced level programs are required to purchase an approved uniform.

490007 Foundations of Health Science

Fee: \$25 1 semester, 1 credit

Prerequisites: Biology or
Advanced Biology and application

This is a one-credit entry course for the health science program. It is recommended for any

student who plans to pursue a medical career or health-related field of study beyond high school. It introduces students to a wide range of health and medical careers, health care skills, emergency care certification, medical terminology, and current disease control and prevention. Lab and classroom studies focus on applying human anatomy and physiology to patient care skills. A large number of outside the classroom field trips offer job shadowing opportunities to local hospitals and health care agencies which gives students a real world look at health and medical careers today. Students are required to provide their own transportation to job shadowing sites. This course will substitute for the Health Education course required for graduation.

490013 Health Internship Therapeutic



Science 490023 Services

Fee: \$87

Fee includes the cost of a uniform and insurance, required.
2 semesters, 2 credits

Health Science Internship and Therapeutic Services are only offered jointly; neither may be taken as a stand-alone course. All Criteria to Advance to Health Science Internship, as stated in the Foundations of Health Science curriculum, must be successfully met prior to approval of enrollment to this senior-level program.

Prerequisites: *Foundations of Health Science*;
Application and selection

This two-credit combination course is designed for students in grade 12 who have completed Foundations of Health Science. Students will complete 12 weeks of internship within a local health care facility working with professional mentors in a health care area(s) of their own choosing. All students will complete six weeks of professional orientation and skills training prior to entering their assigned clinical area. Additionally the course includes units of study in pharmacology, medical Language, cardiac care, healthcare Provider CPR, skills in EKGs and phlebotomy and other entry-level patient care skills. Students gain experience through assisting in a number of health screening and presentations to schools and community groups of all ages.

Human Services



Cosmetology

Cosmetology is science of hair and skin-care techniques including hair styling and coloring, chemical services and nail care. Cosmetology is a people-oriented profession, requiring continuous professional development, long work hours and dedication.

Problem-solving and critical-thinking skills are essential, and many opportunities are provided for student growth in level of competence. Proficiency in grade level math and science, including chemistry, Algebra 1 or Algebra 1A and B is recommended. Lab activities account for a significant part of the overall grade; therefore, daily attendance and class/lab participation is imperative to ensure success.

Students are encouraged to participate in SkillsUSA, the Career and Technical Student Organization for Cosmetology. Membership and participation in SkillsUSA serves as a means to enhance classroom instruction while helping students develop leadership abilities, expand workplace-readiness skills, and broaden opportunities for personal and professional growth.

510060 Introduction to Cosmetology

Fee: \$25 1 semester, 1 term

Prerequisite: age 16 or older

This course provides students with a study of concepts related to the cosmetology profession. Specific topics include cosmetology history and opportunities, professional image, infection control, basic fundamentals, and principles of hair design. Students also gain initial practical experiences in sanitation, shampooing, hair shaping, and hairstyling. Upon successful completion of this course, students are able to practice safety and sanitary precautions as they perform basic cosmetology procedures. *Introduction to Cosmetology* is the prerequisite for Hair Coloring, Chemical Service, Salon Practices and Management, and State Board Practicum.

510061 Hair Coloring

Fee: \$25 1 semester, 1 credit

Prerequisite: Introduction to Cosmetology

This course provides students with study and experience in hair coloring and lightening. Emphasis is placed on color application, laws, levels and classifications of color, and problem solving. Upon successful completion of this course, students are able to identify all phases of hair coloring and its effects upon the hair and perform procedures for hair coloring and lightening. *Hair Coloring must be taken with Chemical Services.*

510062 Chemical Services

Fee: \$25 1 semester, 1 credit

Prerequisite: Introduction to Cosmetology

This course that focuses on the theory of chemical services related to chemical hair texturing. Specific topics include basics of chemistry and electricity, properties of the hair and scalp, and chemical texture services. Students also gain initial practical experience in performing various chemical texturing activities. Emphasis is placed on safety, chemical use and handling, hair and scalp analysis, and client consultation. Upon successful completion of this course, students are able to practice safety and sanitary precautions as they perform these chemical services *Chemical Services must be taken with Hair Coloring.*

510065 Salon Practices and Management

Fee: \$25 1 semester, 1 credit

Prerequisite: *Hair Coloring* and *Chemical Services*

This course enables students to develop entry-level management skills for the cosmetology industry. Students will practice all phases of cosmetology in a salon setting. Upon successful completion of this course, students are able to demonstrate professional work ethics and communication skills, job-seeking and management skills, and exhibit knowledge of the technology used in salons. *Salon Practices and Management must be paired with the State Board Practicum course.*

510068 State Board Practicum

Fee: \$25 1 semester, 1 credit

Prerequisite: *Hair Coloring* and
Chemical Services

This culminating course provides students with a comprehensive study of State Board procedures and practical applications in cosmetology and nail care. The course consists of Pathway A—Cosmetology, content standards 1-19, and Pathway B—Nail Care Services, content standards 1-13 and 20-22. Upon successful completion of this course, students are able to demonstrate practical skills necessary for meeting state licensure requirements and for successful employment. *State Board Practicum must be taken with Salon Practice and Management.*

Family and Consumer Sciences

Family and Consumer Sciences (FACS)

includes a wide-array of academic disciplines associated with individuals, families, communities and the environment in which they live. ***Family, Career and Community Leaders of America (FCCLA)*** is the student organization for FACS, and is an integral part of the curriculum that enhances leadership development skills and provides opportunities for community service.

510004 Family and Consumer Sciences

Fee: \$25 2 semesters, 1 credit

Prerequisite: none

Recommended for ninth and tenth grades

This course provides students with core knowledge and skills in the areas of marriage and family, parenting and care giving, consumer sciences, apparel, housing, food and nutrition, and technology. A school-based laboratory is required for this course.

510012 Food & Nutrition

Fee: \$25 1 semester, ½ credit

Prerequisite: Family & Consumer Sciences

This lab-based course introduces students in grades 10-12 to national and international food choices, preparation techniques, nutrients, menu planning, nutritional guidelines, promoting healthy lifestyles, food presentation, food

storage, food safety, dining etiquette, and career options in the food and nutrition industry.

410012 Family Wellness

Fee: \$25 2 semesters, 1 credit

Grade(s): 10-12

Prerequisite: None

This course is designed for students in grades 10 through 12. Family Wellness covers health issues that impact individuals, families, and communities. Course content provides opportunities for students to explore family health through the stages of the life span. Topics include family health goals, health promotion, health risks, conflict resolution, communication skills needed in healthy relationships, mental health, grief, genetics, disease prevention, chronic illness, family nutrition, substance abuse, home safety, emergency care, first aid, consumerism, advocacy, technology, and careers related to individual and family health and wellness.

Students may elect to substitute this course for ½ unit of Health as required for graduation.

510024 Parenting

Fee: \$25 1 semester, ½ credit

Prerequisite: Family & Consumer Sciences

This course assists students in grades 10 through 12 in the acquisition of knowledge and skills associated with positive parent/child relationships. The course allows students to focus on practical problems related to parenting roles and responsibilities. Course content provides opportunities for students to explore preparation for parenthood; signs and changes in pregnancy; prenatal development, labor and delivery, stages of child development; birth defects and children with exceptionalities; meeting physical, health, and safety needs of children and adolescents; positive parent/child relations; guidance and discipline of children and adolescents; sources of parenting information, support, and assistance; technology impacting parenting; and career opportunities working with parents and children.

510042 Fashion

Fee: \$25 1 semester, ½ credit
Prerequisite: Family & Consumer Sciences

This course is designed to introduce students to selection and care of clothing and accessories for individuals and families throughout the life span. A school-based laboratory is required for this course.

Information Technology Career Cluster



Computer Electronics

430058 Direct Current

Fee: \$25 1 semester, 1 credit
Prerequisite: NONE

This course is designed to provide students with the fundamental knowledge and skills for the electrical & automotive industry. Emphasis is placed on job safety, sources, terminology and symbols, components of a basic circuit, electrical quantities and measurements, characteristics of resistors, Ohm's law in direct current circuits, circuit construction, and troubleshooting. Upon successful completion of this course, students perform basic tasks related to the electrical and automotive industry.

520005 Information Technology Fundamentals

Fee: \$25 1 semester, 1 credit
Prerequisite:
Recommended: Successful completion of
*Direct Current and Business Technology
Applications (BTA)*

This course introduces students to the knowledge base and technical skills for information technology careers. Students study the nature of business and demonstrate knowledge of the functions of information

systems in business. Emphasis is placed on maintaining a safe working environment and on building interpersonal skills needed for working in the informational technology environment. Students demonstrate appropriate knowledge and behaviors regarding legal responsibilities of information technology professionals and explore a variety of information technology career opportunities and develop a personal career plan to meet career goals and objectives. It is recommended that Business Technology Applications be taken prior to enrollment in this course.

410018 Information Technology Support and Service

Fee: \$25 per term 1 semester 1 credit
Prerequisite:
Information Technology Fundamentals

This course provides students with knowledge and skills regarding the maintenance, upgrading, and configuration of PC hardware, components, and peripherals. Upon successful completion of this course, students are able to maintain, upgrade, and configure PC systems. Students receive both classroom instruction and hands-on laboratory experiences. A strong emphasis is placed on proper safety practices and industry ethics.

410019 Computer Management Support

Fee: \$25 1 semester, 1 credit
Prerequisite: *Information Technology Support
and Service*

This course provides students with knowledge and skills regarding computer operating systems and application software. Upon successful completion of this course, students are able to install and maintain computer software. Students receive both classroom instruction and hands-on laboratory experiences. A strong emphasis is placed on proper safety practices and industry ethics.

520021 Networking I

Fee: \$25 1 semester, 1 credit
Prerequisite:
*Information Technology Support and Service,
Computer Management Support and Services
and/or Teacher Recommendation*

This course provides students with knowledge and skills regarding computer basics, the 7-layer OSI model, number system conversions, and

Local Area Network (LAN) devices. Upon successful completion of this course, students are able to install, test, and maintain LANs. Students receive both classroom instruction and hands-on laboratory experiences. A strong emphasis is placed on proper safety practices and industry ethics.

Law, Public Safety, Corrections & Security Cluster

EMERGENCY and FIRE MANAGEMENT



Emergency and Fire Management provides students interested in pursuing careers in emergency medical and/or fire and rescue, the opportunity to initiate skills and credentialing to promote future post-secondary and employment in the public safety field. Students will participate in both academic and hands-on learning, with a focus in physical fitness and mental discipline. Daily attendance and participation are essential to students' success in the program.

The program significantly builds on critical thinking, and both mathematical and scientific calculations and applications. Therefore, a minimum of Algebra 1 or Algebra IA and B is recommended prior to initiating the Emergency and Fire Management career pathway. Due to the forensic foundation of the program, students pursuing this pathway would also benefit from having a genuine interest in advanced sciences, including chemistry, physics, and human anatomy.

Students successfully completing the Emergency and Fire Management program with a "B" or better average will be eligible for post-secondary credits with the Alabama Fire College. Additionally, the senior level courses will facilitate testing for licensures in EMS and volunteer fire fighting, providing employability skills that may be utilized until the age permits application into the Alabama Fire College.

Career and technical student organizations are integral, co-curricular components of each career and technical course. These organizations serve as a means to enhance classroom instruction while helping students

develop leadership abilities, expand workplace-readiness skills, and broaden opportunities for personal and professional growth.

530004 Principles of Public Safety

Fee: \$25 1 semester, 1 credit

Prerequisite: recommended completion of Algebra with "C" or higher

This course provides students with competencies related to a cluster of public service job preparatory programs that help students develop the knowledge and skills necessary for success and advancement in a specialized public service job preparatory program. Students study possible career, employability skills, leadership, basic first aid, blood borne pathogens, fire management services, legal services, and law enforcement services.

530011 Introduction to Fire Science

Fee: \$25 1 semester, 1 credit

Prerequisite: Principles of Public Safety eleventh or twelfth grade

This course provides students with competencies related to a cluster of public service job preparatory programs and helps students develop knowledge and skills necessary for success and advancement in a specialized public service job preparatory program. Students study possible careers, employability skills, leadership, basic first aid, blood borne pathogens, fire management services, legal services, and law enforcement services. This course encourages critical thinking, use of the scientific methods, integration of technology, development of student leadership skills, and application of knowledge and skills related to practical questions and problems. Safety concepts are integrated into instruction to the maximum extent possible.

410024 Emergency Services

Fee: \$25 1 semester, 1 credit

Prerequisite: Introduction to Fire Science

This course introduces students to the emergency medical profession. Course content emphasizes safety, human structure and function, assessment of emergency clients, ethical behavior, and emergency care procedures.

530012 Fire Fighting

Fee: \$25 1 semester, 1 credit

Prerequisite: Introduction to Fire
Science/Emergency Services

This course is designed to provide students with information regarding career possibilities in fire-fighting, including instruction in techniques of fire-fighting. Topics include career opportunities, safety, fire prevention and control, hazardous materials, sprinkler systems, first responder, and public relations. This course encourages critical thinking, use of the scientific methods, integration of technology, development of student leadership skills, and application of knowledge and skills related to practical questions and problems. Safety concepts are integrated into instruction to the maximum extent possible.

Science, Technology, Engineering & Mathematics (STEM)

Engineering Academy

The Engineering Academy promotes problem-solving skills through the practical application of math, science and technology. The project-based curriculum provides a unique educational platform that encourages students to explore the multiple engineering specialties while exposing students to the increasing technological demands of the global environment. The four-year curriculum will introduce students to drafting, computer integrated manufacturing/robotics, architectural structures and civil engineering. Students that enjoy producing and/or analyzing designs, and/or interested in pursuing post-secondary programs in engineering or related technical fields are encouraged to participate in the four-year curriculum.

560011 Foundations of Engineering

Fee: \$25 1 semester, 1 credit

Prerequisite: Application and instructor approval

This course is designed to offer students an overview of the engineering profession and fundamental skills utilized in general engineering. Students investigate various engineering disciplines and related career paths.

They develop communication and teamwork skills as well as increase their understanding of basic scientific and mathematics principles used in problem solving through the engineering and design process

560012 Engineering Applications

Fee: \$25 1 semester, 1 credit

Prerequisite: Foundations of Engineering

This course is designed to explore the application of engineering principles in various technological areas including construction, transportation, communication, manufacturing, and bioengineering. Students gain knowledge and experience needed to effectively improve processes and systems in each of these areas.

560014 Engineering Research & Design

Fee: \$25 1 semester, 1 credit

Prerequisites: Foundations of Engineering,
Engineering Applications, Engineering Systems,
instructor approval

This capstone course in the engineering field is designed to enable students to explore systems involved in the engineering research and design process. Topics include fluid, thermal, mechanical, and electrical systems. Students gain knowledge of each type of system and common interactions among them. Successful completion of Algebra II is required for this course.

560013 Engineering Systems

Fee: \$25 1 semester, 1 credit

Prerequisites Foundations of Engineering,
Engineering Applications and instructor
approval

This course is designed to enable students to explore systems involved in the engineering research and design process. Topics include fluid, thermal, mechanical, and electrical systems. Students gain knowledge of each type of system and common interactions among them. Successful completion of Algebra II is required for this course. Career and technical student organizations are integral, co-curricular components of each career and technical education course. These organizations serve as a means to enhance classroom instruction while helping students develop leadership abilities, expand work-place readiness skills, and broaden opportunities for personal and professional growth.



(Currently exploring Project Lead the Way
PLTW Curriculum)

Transportation, Distribution & Logistics



Automotive Technology

Automotive Technology emphasizes critical thinking skills and requires significant mathematical computation and application, as well as a conceptual understanding of physics. In order to better ensure student's success of the curriculum, students are recommended to have successfully completed a minimum of Algebra I, or Algebra IIA and B with a "C" or better average.

Students taking automotive technology courses are required to both attend and participate in class/lab daily. Hands-on work experiences and SkillsUSA leadership activities provide many opportunities to enhance classroom instruction and career development. Each of the Automotive Technology courses incorporate all personal and environmental safety practices associated with clothing, eye protection, hand tools, power equipment, proper ventilation, and the handling, storage, and disposal of chemicals and materials in accordance with local, state, and federal safety and environmental regulations.

Students successfully completing the automotive technology courses with a "B" or better average may earn articulated credit hours with post-secondary educational institutions. Courses successfully completed in automotive technology will be considered toward required hours in the *Mechatronics* and *Automotive Technology* programs sponsored by Mercedes-Benz with classes held at Shelton State Community College. Application and evaluations are required for entrance in the *Mechatronics* and *Automotive Technology* programs.

The automotive technology program is a *National Automotive Technicians Education Foundation (NATEF)* Accredited program; the program is required to meet all NATEF standards annually to maintain accreditation, and students are required to meet both academic and contact hour standards for certification. Therefore, daily attendance and participation are required for student success.

570004 Transportation, Distribution, and Logistics

Fee: \$25 1 semester, 1 credit

Prerequisite: none

This course is designed to equip students with basic knowledge of the automotive profession, including foundational skills and safety for personal and environmental practices.

This class is ideal for the student that may desire practical automotive knowledge, as well as for the student interested in pursuing advanced *Transportation, Distribution and Logistics* programs-- *Automotive Services, Aviation Technology, Collision Repair, Diesel Technology, Marine Technology* and/or *Power Equipment* as a career.

Students investigate various topics related to this field with emphasis on rules and regulations, ethics, job opportunities, career development, and associated terminology. Students enhance communication skills by working with others on a professionally oriented team.

Students develop foundational skills, including locating technical information, technical writing, and solving related mathematics problems with technical applications. Additionally, students apply problem-solving and critical-thinking skills.

570027 Automotive Brakes

Fee: \$25 1 semester, 1 credit

Prerequisite: "C" or better in Transportation, Distribution, and Logistics and approval from instructor; *Sophomore Status*; "C" or better Completion in Algebra I or Algebra IA and B is recommended.

This course provides students with classroom and laboratory instruction in brake system operation, diagnosis, and repair. Emphasis is placed on hydraulic system diagnosis, disc and drum brake diagnosis, and equipment usage.

570028 Automotive Suspension and Steering

Fee: \$25 1 semester, 1 credit

Prerequisite:

Successful completion of *Automotive Brakes* and Completion of Algebra IA and B with a "C" or higher is recommended

This course is designed to provide students with a working knowledge of suspension and steering

systems. Topics include steering diagnosis, suspension diagnosis, alignment procedures, and wheel mounting and balancing. Upon successful completion of this course, students are able to diagnose and repair suspension and steering systems.

570025 Automotive Electrical and Electronic Systems I

Fee: \$25 1 semester, 1 credit

Prerequisite: Sophomore Status.
Completion of Algebra I/Algebra I-B is recommended.

This course provides students with classroom and laboratory instruction in electrical and electronic system operations, diagnosis, and repairs. Emphasis is placed on system operations, circuit diagnosis, wiring diagrams, and equipment usage. Upon successful completion of the course, students are able to diagnose and repair electrical and electronic systems.

570026 Automotive Electrical and Electronic Systems II

Fee: \$25 1 semester, 1 credit

Prerequisite: Automotive Electrical & Electronic Systems I, Completion of Algebra I/Algebra IB is recommended.

This course provides students with classroom and laboratory instruction in electrical components operation, diagnosis, and repairs. Upon successful completion of this course, the student will be able to diagnose and repair advanced electronic systems. The prerequisite for this course is Automotive Electrical and Electronics Systems I.



SENIOR PROJECT

400023 Senior Career Pathway Project (SCPP)

Fee: \$25 1 semester, 1 credit

Prerequisite: completion of 2 or more Career Technical education courses/approval of supervising teacher

This is a capstone course designed for career and technical education students who have completed two or more career and technical education courses in any one career pathway. This course allows students to utilize their secondary coursework through an experience that showcases their learning. It provides an opportunity for a student to choose an area of interest and engage in an in-depth exploration of the area while demonstrating problem-solving, decision-making, and independent learning skills. The SCPP contributes to an educational plan of challenging courses and practical experiences that prepare students for the workplace or pursuing further education. During the SCPP, the student works with his or her coordinating teacher, academic teachers, and with a product or process mentor who has expertise in the student's field of study. At the conclusion of SCPP, the student presents or demonstrates knowledge gained to an audience consisting of coordinator teacher, academic teachers, the product or process mentor, peers, and community and business representatives. Career and technical student organizations are integral, co-curricular components of each career cluster and technical education course. These organizations serve as a means to enhance classroom instruction while helping students develop leadership abilities, expand workplace-readiness skills, and broaden opportunities for personal and professional growth.